



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 127446

TO: Terra Gibbs

Location:

Art Unit: 1635

July 16, 2004

208

Case Serial Number: 10/024369

From: P. Sheppard

Location: Remsen Building

Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

7/15/04

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Schreiber, David

From: Gibbs, Terra
Sent: Monday, June 28, 2004 10:57 AM
To: Schreiber, David
Subject: Sequence search request...

Hi David,

I have another request for a score over length search:

I need a length limited nucleotide sequence search of SEQ ID NO:47 in USSN 10/024,369,

NOTE: SEQ ID NO:47 is a 20-mer

where the returns are rank ordered based on the score over length/ratio as we've discussed. I need the lengths limited to hits between 8 and 50 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not. I also need the interference databases searched if possible.

*Terra Cotta Gibbs, Ph.D.
Art Unit 1635
Remsen Building 2D10
571-272-0758*

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 15, 2004, 18:07:01 ; Search time 0.001 Seconds
(without alignments)
0.320 Million cell updates/sec

Title: us-10-024-369-47

Perfect score: 20
Sequence: 1 cccacccttcttgggcagaag 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 8 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 2000 summaries

Database : estdb :

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	30.0	8	1	CA851350
2	4	20.0	8	1	CA851350

ALIGNMENTS

RESULT 1
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LOCUS
DEFINITION
CA851350
D12G08.N20.14.ab1 cDNA Peking library 2, 4 day SCN3 Glycine max
CDNA clone D12G08 5', mRNA sequence.
ACCESSION
CA851350
VERSION
CA851350.1 GI:33388143
KEYWORDS
EST.
SOURCE
Glycine max (soybean)
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
Glycine.
REFERENCE
1 (bases 1 to 8)
AUTHORS
Alkharouf,N.W., Khan,R. and Matthews,B.F.
TITLE
Analysis of expressed sequence tags from roots of resistant soybean
infected by the soybean cyst nematode
JOURNAL
Unpublished (2002)
COMMENT
Contact: Alkharouf, N.W.
Soybean Genomics and Improvement Laboratory (SGIL)
US Department of Agriculture (USDA), ARS, PSI
Bldg.006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,
USA
Tel: 301 504 5750
Fax: 301 504 5728

FEATURES
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/cultivar="Peking"
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/dev_stages="Seedlings"
/clone_lib="cDNA Peking library 2, 4 day SCN3"
/note="Vector: pBluescript SK-; cDNA clones from mRNA
extracted from Peking roots 2 and 4 days past invasion."

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Best Local Similarity 85.7%; Pred. No. 0;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TCTTGGG 14
| | | | |
Db 8 TTTTGGG 2

RESULT 2
CA851350
LOCUS
DEFINITION
CA851350
D12G08.N20.14.ab1 cDNA Peking library 2, 4 day SCN3 Glycine max
CDNA clone D12G08 5', mRNA sequence.
ACCESSION
CA851350
VERSION
CA851350.1 GI:33388143
KEYWORDS
EST.
SOURCE
Glycine max (soybean)
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
Glycine.

REFERENCE
1 (bases 1 to 8)
AUTHORS
Alkharouf,N.W., Khan,R. and Matthews,B.F.
TITLE
Analysis of expressed sequence tags from roots of resistant soybean
infected by the soybean cyst nematode
JOURNAL
Unpublished (2002)
COMMENT
Contact: Alkharouf, N.W.
Soybean Genomics and Improvement Laboratory (SGIL)
US Department of Agriculture (USDA), ARS, PSI
Bldg.006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,
USA
Tel: 301 504 5750
Fax: 301 504 5728
Email: alkharouf@ba.ars.usda.gov.
Location/Qualifiers
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/note="Vector: pBluescript SK-; cDNA clones from mRNA
extracted from Peking roots 2 and 4 days past invasion."

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extracted from Peking roots 2 and 4 days past invasion."

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCA 4
| | | |
Db 2 CCCA 5

Search completed: July 15, 2004, 18:07:02

Job time : 1 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 15, 2004, 16:39:00 ; Search time 0.001 Seconds
(without alignments)
32.440 Million cell updates/sec

Title: us-10-024-369-47
Perfect score: 20
Sequence: 1 cccacctcttggcgagaag 20

Scoring table: IDENTITY NUC
Gapop 10⁻⁰ , Gapext 0.5

Searched: 77 seqs, 811 residues

Total number of hits satisfying chosen parameters: 154

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 2000 summaries

Database : rgedb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	12	60.0	15	1	BD061440
2	10	50.0	11	1	AX623364
3	10	50.0	11	1	AX630785
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C 5	9	45.0	10	1	BD238992
C 6	9	45.0	10	1	BD239512
C 7	9	45.0	10	1	BD239813
8	9	45.0	11	1	ARJ53840
9	9	45.0	11	1	AX625163
10	9	45.0	11	1	AX632584
11	9	45.0	12	1	AR349259
12	9	45.0	12	1	AR349261
C 13	8.4	42.0	10	1	AR2569
C 14	8.4	42.0	10	1	AR043677
15	8.4	42.0	10	1	BD238844
16	8.4	42.0	10	1	BD239019
C 17	8.4	42.0	10	1	BD240663
C 18	8.4	42.0	10	1	AR303500
C 19	8.4	42.0	10	1	AX152798
C 20	8.4	42.0	10	1	AX301616
21	8.4	42.0	10	1	AX374630
C 22	8.4	42.0	10	1	AX805907
C 23	8.4	42.0	10	1	BD161343
C 24	8.4	42.0	10	1	BD166511
C 25	8.4	42.0	11	1	AR074494
C 26	8.4	42.0	11	1	AR081174
C 27	8.4	42.0	11	1	AR085371
C 28	8.4	42.0	11	1	AR088119
C 29	8.4	42.0	11	1	AR104278
C 30	8.4	42.0	11	1	AR143540
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C 32	8.4	42.0	11	1	AR171617
C 33	8.4	42.0	11	1	BD2433207

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C 35	8.4	42.0	11	1	AX412934
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C 37	8.4	42.0	11	1	AX471678
C 38	8.4	42.0	11	1	AX471682
C 39	8.4	42.0	11	1	AX623377
C 40	8.4	42.0	11	1	AX623396
C 41	8.4	42.0	11	1	AX623509
C 42	8.4	42.0	11	1	AX625581
C 43	8.4	42.0	11	1	AX626059
C 44	8.4	42.0	11	1	AX626126
C 45	8.4	42.0	11	1	AX626949
C 46	8.4	42.0	11	1	AX627089
C 47	8.4	42.0	11	1	AX627751
C 48	8.4	42.0	11	1	AX627792
C 49	8.4	42.0	11	1	AX627837
C 50	8.4	42.0	11	1	AX628191
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C 62	8	40.0	9	1	AB012724
C 63	8	40.0	10	1	AX15662
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ALIGNMENTS

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RESULT 1
BD061440 15 bp DNA linear PAT 27-AUG-2002
LOCUS Method for selectively separating living cell expressed with
DEFINITION specific gene.
ACCESSION BD061440
VERSION BD061440.1 GI:22607046
KEYWORDS JP 2001286285-A/2.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 15)
AUTHORS Ishibashi, K. and Tsuji, A.
TITLE Method for selectively separating living cell expressed with
JOURNAL specific gene
PATENT: JP 2001286285-A 2 16-OCT-2001;
LABORATORY OF MOLECULAR BIOPHOTONICS
COMMENT OS Artificial Sequence
PN JP 2001286285-A/2
PD 16-OCT-2001
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PF 28-APR-2000 JP 2000130793
PI KANAME ISHIBASHI, AKIHIKO TSUJI
C12N15/09, C12N1/02, C12N1/68, G01N33/48, G01N33/53, PC
G01N33/566
PC G01N33/58//C12N1/02, C12R1/91, C12Q1/68, C12R1/91, C12N15/00,
PC C12N5/00
CC Probe
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Db 3 CCTTCTTGGGCA 14
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LOCUS Sequence 405 from Patent WO02053774.
DEFINITION AX623364
ACCESSION AX623364
VERSION AX623364.1 GI:28451305
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 405 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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LOCUS Sequence 7826 from Patent WO02053774.
DEFINITION AX630785
ACCESSION AX630785
VERSION AX630785.1 GI:28458825
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7826 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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DEFINITION Sequence 194 from Patent WO02053775.
ACCESSION  AX472203
VERSION     AX472203.1 GI:22207240
KEYWORDS   .
SOURCE     Homo sapiens (human)
ORGANISM   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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REFERENCE  1
AUTHORS    Huster,E., Haber,L.M. and Wojnowski,L.
TITLE      Identification of the genetic determinants of the polymorphic
           cyp3a5 expression
JOURNAL    Patent: WO 02053775-A 194 11-JUL-2002;
           EPIDAUROS BIOTECHNOLOGIE AG (DE)
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Db 11 TCTTGGGCAGA 1

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LOCUS      10 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD238992
VERSION     BD238992.1 GI:33048762
KEYWORDS   JP 2002534056-A/410.
SOURCE     Homo sapiens (human)
ORGANISM   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 10)
AUTHORS    Roberts,B.L. and Shankara,S.
TITLE      Preparation and use of superior vaccines
JOURNAL    Patent: JP 2002534056-A 410 15-OCT-2002;
           GENZYME CORP
COMMENT    OS Homo sapiens (human)
           PN JP 2002534056-A/410
           PD 15-OCT-2002
           PF 18-JUN-1999 JP 2000554749
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           PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
           C12N1/19,
           PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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           PC C12N15/00,C12N5/00,C12N15/00
           CC Preparation and use of superior vaccines

/mol_type="unassigned DNA"
/db_xref="taxon:9606"

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Best Local Similarity 100.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTTC 9
   . |||||
Db 9 CCCACCTTC 1

RESULT 6
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LOCUS      10 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD239512
VERSION     BD239512.1 GI:33049282
KEYWORDS   JP 2002534056-A/930.
SOURCE     Homo sapiens (human)
ORGANISM   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 10)
AUTHORS    Roberts,B.L. and Shankara,S.
TITLE      Preparation and use of superior vaccines
JOURNAL    Patent: JP 2002534056-A 930 15-OCT-2002;
           GENZYME CORP
COMMENT    OS Homo sapiens (human)
           PN JP 2002534056-A/930
           PD 15-OCT-2002
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           PI BRUCE L ROBERTS,SRINIVAS SHANKARA
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           PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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           PC C12N15/00,C12N5/00,C12N15/00
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QY 11 TGGCGAGAA 19
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RESULT 7
BD239813/c
LOCUS
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239813
VERSION BD239813.1 GI:33049583
KEYWORDS JP 2002534056-A/1231.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1231 15-OCT-2002;
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1231
PD 15-OCT-2002
PP 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15,PC
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QY 2 CCACCTTCT 10
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RESULT 8
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LOCUS
DEFINITION Sequence 15 from patent US 6593111.
ACCESSION AR353840
VERSION AR353840.1 GI:33759907
KEYWORDS .
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 11)
AUTHORS Baric,R.S. and Yount,B.
TITLE Directional assembly of large viral genomes and chromosomes
JOURNAL Patent: US 6593111-A 15 15-JUL-2003;
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ACCESSION AX625163
VERSION AX625163.1 GI:28453104
KEYWORDS Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 2204 11-JUN-2002;
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QY 12 GGGCAGAAG 20
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RESULT 10
AX632584
LOCUS
DEFINITION Sequence 9626 from Patent WO02053774.
ACCESSION AX632584
VERSION AX632584.1 GI:28468199
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens

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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 262 15-OCT-2002;
GENZYME CORP
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OS Homo sapiens (human)
PN JP 2002534056-A/262
PD 15-OCT-2002
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PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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Db 1 TGCCTGGGCA 10
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DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239019
VERSION BD239019.1 GI:33048789
KEYWORDS JP 2002534056-A/437.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 437 15-OCT-2002;
GENZYME CORP
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OS Homo sapiens (human)
PN JP 2002534056-A/437
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
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PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240663
VERSION BD240663.1 GI:33050433
KEYWORDS JP 2002534056-A/2081.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 2081 15-OCT-2002;
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/2081
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
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DEFINITION Sequence 53 from Patent WO03060163.
ACCESSION AX805907
VERSION AX805907.1 GI:38522818
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE
AUTHORS van Eijk, M.J. and van Schaik, C.
TITLE Discrimination and detection of target nucleotide sequences using
JOURNAL mass spectrometry
COMMENT Patent: WO 03060163-A 53 24-JUL-2003;
Keygene N.V. (NL)
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QY 1 CCCACCTTCT 10
Db 10 CCCACCTTCT 1
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LOCUS BD161343 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161343
VERSION BD161343.1 GI:27867101
KEYWORDS JP 2002186482-A/165.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Nagai, S., Matsushima, K. and Hashimoto, S.
TITLE Human activated Th1 and Th2 cell expression genes
JOURNAL Patent: JP 2002186482-A 165 02-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT OS Homo sapiens (human)
PN JP 2002186482-A/165
PD 02-JUL-2002
PI SHIGENORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO PC
C12N15/09, C07K14/47, C07K16/18, C12P21/08, C12N15/00 CC
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RESULT 24
BD166511/c
LOCUS BD166511 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human liver disease-expressing genes.
ACCESSION BD166511
VERSION BD166511.1 GI:27872323
KEYWORDS JP 2002209591-A/56.
SOURCE unidentified
ORGANISM unidentified
REFERENCE
1 (bases 1 to 10)
Matsushima, K., Hashimoto, S., Kaneko, S. and Yamashita, T.
AUTHORS Human liver disease-expressing genes
TITLE Human liver disease-expressing genes
JOURNAL Patent: JP 2002209591-A 56 30-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT OS Homo sapiens (human)
PN JP 2002209591-A/56
PD 30-JUL-2002
PF 19-JAN-2001 JP 2001012328
PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO PI
YAMASHITA
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Db 10 CTTCTTGGTC 1
RESULT 25
AR074494/c
LOCUS AR074494 11 bp DNA linear PAT 28-AUG-2000
DEFINITION Sequence 73 from patent US 5955075.
ACCESSION AR074494
VERSION AR074494.1 GI:10001249
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 11)
Zavada, J., Pastorekova, S. and Pastorek, J.
AUTHORS Method of inhibiting tumor growth using antibodies to MN protein
TITLE Method of inhibiting tumor growth using antibodies to MN protein
JOURNAL Patent: US 5955075-A 73 21-SEP-1999;
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RESULT 26
AR081174/c
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DEFINITION      Sequence 73 from patent US 5972353.
ACCESSION       AR081174
VERSION         AR081174.1  GI:10007902
KEYWORDS        .
SOURCE          Unknown.
ORGANISM        Unknown.
REFERENCE       1 (bases 1 to 11)
AUTHORS        Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE          MN proteins, polypeptides, fusion proteins and fusion polypeptides
JOURNAL        Patent: US 5972353-A 73 26-OCT-1999;
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Db 10 CCCACTGCT 1

RESULT 27
AR085371/c
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DEFINITION      Sequence 73 from patent US 5981711.
ACCESSION       AR085371
VERSION         AR085371.1  GI:10012140
KEYWORDS        .
SOURCE          Unknown.
ORGANISM        Unknown.
REFERENCE       1 (bases 1 to 11)
AUTHORS        Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE          MN-specific antibodies and hybridomas
JOURNAL        Patent: US 5981711-A 73 09-NOV-1999;
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Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACTTCT 10
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Db 10 CCCACTGCT 1

RESULT 28
AR088119/c
LOCUS           AR088119           11 bp      DNA      linear      PAT 07-SEP-2000
DEFINITION      Sequence 73 from patent US 5989838.
ACCESSION       AR088119
VERSION         AR088119.1  GI:10014882
KEYWORDS        .
SOURCE          Unknown.
ORGANISM        Unknown.
REFERENCE       1 (bases 1 to 11)
AUTHORS        Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE          Immunological methods of detecting MN proteins and MN polypeptides
JOURNAL        Patent: US 5989838-A 73 23-NOV-1999;
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RESULT 29
AR104278/c
LOCUS           AR104278           11 bp      DNA      linear      PAT 14-FEB-2001
DEFINITION      Sequence 73 from patent US 6093548.
ACCESSION       AR104278
VERSION         AR104278.1  GI:12816986
KEYWORDS        .
SOURCE          Unknown.
ORGANISM        Unknown.
REFERENCE       1 (bases 1 to 11)
AUTHORS        Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE          Detection and quantitation of MN-specific antibodies
JOURNAL        Patent: US 6093548-A 73 25-JUL-2000;
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Db 10 CCCACTGCT 1

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LOCUS           AR143540           11 bp      DNA      linear      PAT 08-AUG-2001
DEFINITION      Sequence 73 from patent US 6204370.
ACCESSION       AR143540
VERSION         AR143540.1  GI:15104826
KEYWORDS        .
SOURCE          Unknown.
ORGANISM        Unknown.
REFERENCE       1 (bases 1 to 11)
AUTHORS        Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE          MN gene and protein
JOURNAL        Patent: US 6204370-A 73 20-MAR-2001;
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Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACTTCT 10
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Db 10 CCCACTGCT 1

RESULT 31
AR171446/c
LOCUS           AR171446           11 bp      DNA      linear      PAT 17-DEC-2001
DEFINITION      Sequence 73 from patent US 6297041.
ACCESSION       AR171446
VERSION         AR171446.1  GI:17910396
KEYWORDS        .
SOURCE          Unknown.
ORGANISM        Unknown.
REFERENCE       1 (bases 1 to 11)
AUTHORS        Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE          Immunological methods of detecting MN proteins and MN polypeptides
JOURNAL        Patent: US 6297041-A 73 23-NOV-1999;
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KEYWORDS      Unknown.
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE     1 (bases 1 to 11)
AUTHORS       Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE        MN gene and protein
JOURNAL      Patent: US 6297041-A 73 02-OCT-2001;
FEATURES     Location/Qualifiers
source       1..11
             /organism="unknown"
             /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
    |||||
Db 10 CCCACCTGCT 1

RESULT 32
LOCUS      AR171617/c
DEFINITION Sequence 73 from patent US 6297051.
ACCESSION  AR171617
VERSION    AR171617.1 GI:17910567
KEYWORDS   .
SOURCE     Unknown.
ORGANISM   Unknown.
REFERENCE  1 (bases 1 to 11)
AUTHORS    Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE      MN gene and protein
JOURNAL    Patent: US 6297051-A 73 02-OCT-2001;
FEATURES   Location/Qualifiers
source     1..11
           /organism="unknown"
           /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
    |||||
Db 10 CCCACCTGCT 1

RESULT 33
LOCUS      BD243207/c
DEFINITION MN gene and protein.
ACCESSION  BD243207
VERSION    BD243207.1 GI:33052977
KEYWORDS   JP 2002528085-A/56.
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
REFERENCE  1 (bases 1 to 11)
AUTHORS    Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE      MN gene and protein
JOURNAL    Patent: JP 2002528085-A 56 03-SEP-2002;
INSTITUTE  INSTITUTE OF VIROLOGY
COMMENT    OS Homo sapiens (human)
           PN JP 2002528085-A/56
           PD 03-SEP-2002
           PF 23-OCT-1999 JP 2000578465
           PR 23-OCT-1998 US 09/177776,23-OCT-1998 US 09/178115 PI
           JAN ZAVADA,SILVIA PASTOREKOVA,JAROMIR PASTOREK PC
           C12N15/09,A61K38/00,A61K39/395,A61K39/395,A61K48/00,A61P35/00, PC

KEYWORDS      Unknown.
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE     1 (bases 1 to 11)
AUTHORS       Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE        MN gene and protein
JOURNAL      Patent: US 6297051-A 73 02-OCT-2001;
FEATURES     Location/Qualifiers
source       1..11
             /organism="unknown"
             /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
    |||||
Db 10 CCCACCTGCT 1

RESULT 34
LOCUS      I34822/c
DEFINITION Sequence 15 from patent US 5599673.
ACCESSION  I34822
VERSION    I34822.1 GI:2087790
KEYWORDS   .
SOURCE     Unknown.
ORGANISM   Unknown.
REFERENCE  1 (bases 1 to 11)
AUTHORS    Keating,M.T., Curran,M.E. and Wang,Q.
TITLE      Long QT syndrome genes
JOURNAL    Patent: US 5599673-A 15 04-FEB-1997;
FEATURES   Location/Qualifiers
source     1..11
           /organism="unknown"
           /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
    |||||
Db 10 CCCACCTGCT 1

RESULT 35
LOCUS      AX412934
DEFINITION Sequence 698 from Patent WO0222675.
ACCESSION  AX412934
VERSION    AX412934.1 GI:21445392
KEYWORDS   .
SOURCE     Arabidopsis thaliana (thale cress)
ORGANISM   Arabidopsis thaliana
REFERENCE  1
AUTHORS    Glazebrook,J., Wang,X., Dangl,J.L., Eulgem,T. and Zhu,T.
TITLE      Plant genes, the expression of which are altered by pathogen
           infection
JOURNAL    Patent: WO 0222675-A 698 21-MAR-2002;
           Syngenta Participations AG (CH); UNIVERSITY OF NORTH CAROLINA AT
           CHAPEL HILL (US); Glazebrook, Jan (US); Wang, Xun (US); Dangl,
           Jeffrey L. (US); Eulgem, Thomas (US)
FEATURES   Location/Qualifiers
source     1..11
           /organism="Arabidopsis thaliana"
           /mol_type="unassigned DNA"

C07K14/47,
CC C12Q1/02,G01N33/566// (C12Q1/02,C12R1:91),C12N15/00,A61K37/02
CC MN gene and protein
FH Key Location/Qualifiers
FT source 1..11
           /organism="Homo sapiens (human)".
FEATURES   Location/Qualifiers
source     1..11
           /organism="Homo sapiens"
           /mol_type="genomic DNA"
           /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
    |||||
Db 10 CCCACCTGCT 1
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/db_xref="taxon:3702"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 TTGGGCAGAA 19
Db 2 TTGGGCAAAA 11

RESULT 36
AX470593/c
LOCUS      AX470593      11 bp      DNA      linear      PAT 09-AUG-2002
DEFINITION Sequence 170 from Patent WO02053773.
ACCESSION  AX470593
VERSION     AX470593.1 GI:22205718
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Hofmann,K., Conradt,M. and Petersohn,D.
TITLE       Method for determining skin stress or skin ageing in vitro
JOURNAL     Patent: WO 02053773-A 170 11-JUL-2002;
            HENKEL KGAA (DE)
FEATURES    Location/Qualifiers
             source
              1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCACCTTCTT 11
Db 11 CCACCTTCTT 2

RESULT 37
AX471678
LOCUS      AX471678      11 bp      DNA      linear      PAT 09-AUG-2002
DEFINITION Sequence 1255 from Patent WO02053773.
ACCESSION  AX471678
VERSION     AX471678.1 GI:22206803
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Hofmann,K., Conradt,M. and Petersohn,D.
TITLE       Method for determining skin stress or skin ageing in vitro
JOURNAL     Patent: WO 02053773-A 1255 11-JUL-2002;
            HENKEL KGAA (DE)
FEATURES    Location/Qualifiers
             source
              1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTTCTTG 12
Db 2 CACCTTCTGG 11

RESULT 38
AX471682
LOCUS      AX471682      11 bp      DNA      linear      PAT 09-AUG-2002
DEFINITION Sequence 1259 from Patent WO02053773.
ACCESSION  AX471682
VERSION     AX471682.1 GI:22206807
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Hofmann,K., Conradt,M. and Petersohn,D.
TITLE       Method for determining skin stress or skin ageing in vitro
JOURNAL     Patent: WO 02053773-A 1259 11-JUL-2002;
            HENKEL KGAA (DE)
FEATURES    Location/Qualifiers
             source
              1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTTCTTG 12
Db 2 CACCTTATGG 11

RESULT 39
AX623377/c
LOCUS      AX623377      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 418 from Patent WO02053774.
ACCESSION  AX623377
VERSION     AX623377.1 GI:28451318
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Petersohn,D., Conradt,M. and Hofmann,K.
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 418 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES    Location/Qualifiers
             source
              1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTTCTTG 12
Db 11 CACCTTCTTG 2

RESULT 40
AX623396
LOCUS      AX623396      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 437 from Patent WO02053774.
ACCESSION  AX623396
VERSION     AX623396.1 GI:28451337
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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REFERENCE
AUTHORS      1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 437 11-JUL-2002;
              Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
SOURCE       1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCCACCTTCTT 11
        1111111111
Db      2 CCACCTTCTT 1
        10 CCACCTTTT 1

RESULT 41
AX623509/c
LOCUS      AX623509          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 550 from Patent WO02053774.
ACCESSION  AX623509
VERSION     AX623509.1 GI:28451450
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 Petersohn,D., Conradt,M. and Hofmann,K.
AUTHORS
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 550 11-JUL-2002;
             Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
SOURCE      1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCCACCTTCTT 10
        1111111111
Db      2 CCACCTTCTT 11
        10 CCACCTTCTT 11

RESULT 42
AX625581/c
LOCUS      AX625581          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 2622 from Patent WO02053774.
ACCESSION  AX625581
VERSION     AX625581.1 GI:28453522
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 Petersohn,D., Conradt,M. and Hofmann,K.
AUTHORS
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 2622 11-JUL-2002;
             Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
SOURCE      1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 CCACCTTCTT 11
        1111111111
Db      10 CCACCTCCTT 1
        10 CCACCTCCTT 1

RESULT 43
AX626059/c
LOCUS      AX626059          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 3100 from Patent WO02053774.
ACCESSION  AX626059
VERSION     AX626059.1 GI:28454097
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 Petersohn,D., Conradt,M. and Hofmann,K.
AUTHORS
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 3100 11-JUL-2002;
             Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
SOURCE      1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCCACCTTCTT 10
        1111111111
Db      2 CCCACCTTCTT 11
        10 CCCACCTTCTT 11

RESULT 44
AX626126/c
LOCUS      AX626126          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 3167 from Patent WO02053774.
ACCESSION  AX626126
VERSION     AX626126.1 GI:28454164
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 Petersohn,D., Conradt,M. and Hofmann,K.
AUTHORS
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 3167 11-JUL-2002;
             Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
SOURCE      1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCCACCTTCTT 10
        1111111111
Db      2 CCCACCTTCTT 11
        10 CCCACCTTCTT 11

RESULT 45
AX626949/c
LOCUS      AX626949          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 2622 from Patent WO02053774.
ACCESSION  AX626949
VERSION     AX626949.1 GI:28453522
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 Petersohn,D., Conradt,M. and Hofmann,K.
AUTHORS
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 2622 11-JUL-2002;
             Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
SOURCE      1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"
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TITLE	Method for determining homeostasis of the skin					
JOURNAL	Patent: WO 02053774-A 4792 11-JUL-2002;					
FEATURES	Henkel Kommanditgesellschaft auf Aktien (DE)					
source	Location/Qualifiers					
	1. .11					
	/organism="Homo sapiens"					
	/mol_type="unassigned DNA"					
	/db_xref="taxon:9606"					
Query Match	42.0%; Score 8.4; DB 1; Length 11;					
Best Local Similarity	90.0%; Pred. No. 22;					
Matches	9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;					
QY	2 CCACCTTCTT 11					
Db	11 CCACCTTCTT 2					
RESULT 48						
LOCUS	AX627792 11 bp DNA linear PAT 21-FEB-2003					
DEFINITION	Sequence 4833 from Patent WO02053774.					
ACCESSION	AX627792					
VERSION	AX627792.1 GI:28455830					
KEYWORDS						
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
AUTHORS	Petersohn,D., Conradt,M. and Hofmann,K.					
TITLE	Method for determining homeostasis of the skin					
JOURNAL	Patent: WO 02053774-A 4833 11-JUL-2002;					
FEATURES	Henkel Kommanditgesellschaft auf Aktien (DE)					
source	Location/Qualifiers					
	1. .11					
	/organism="Homo sapiens"					
	/mol_type="unassigned DNA"					
	/db_xref="taxon:9606"					
Query Match	42.0%; Score 8.4; DB 1; Length 11;					
Best Local Similarity	90.0%; Pred. No. 22;					
Matches	9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;					
QY	3 CACCTTCCTG 12					
Db	2 CACCTTCGTG 11					
RESULT 49						
LOCUS	AX627837 11 bp DNA linear PAT 21-FEB-2003					
DEFINITION	Sequence 4878 from Patent WO02053774.					
ACCESSION	AX627837					
VERSION	AX627837.1 GI:28455875					
KEYWORDS						
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
AUTHORS	Petersohn,D., Conradt,M. and Hofmann,K.					
TITLE	Method for determining homeostasis of the skin					
JOURNAL	Patent: WO 02053774-A 4878 11-JUL-2002;					
FEATURES	Henkel Kommanditgesellschaft auf Aktien (DE)					
source	Location/Qualifiers					
	1. .11					
	/organism="Homo sapiens"					
	/mol_type="unassigned DNA"					
	/db_xref="taxon:9606"					
Query Match	42.0%; Score 8.4; DB 1; Length 11;					
Best Local Similarity	90.0%; Pred. No. 22;					
Matches	9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;					

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCACCTTCTT 11
|||||
Db 1 CCACCTGCTT 10

RESULT 50
AX628191
LOCUS AX628191 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5232 from Patent WO02053774.
ACCESSION AX628191
VERSION AX628191.1 GI:28456229
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5232 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
Location/Qualifiers
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTTCTTG 12
|||||
Db 2 CACCTTATTG 11

RESULT 51
AX628263
LOCUS AX628263 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5304 from Patent WO02053774.
ACCESSION AX628263
VERSION AX628263.1 GI:28456301
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5304 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
Location/Qualifiers
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 TTGGGCAGAA 19
|||||
Db 2 TTGGGTAGAA 11

RESULT 52
AX629947/c
LOCUS AX629947 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6988 from Patent WO02053774.

ACCESSION AX629947
VERSION AX629947.1 GI:28457985
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6988 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
Location/Qualifiers
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 CTTCTTGGGC 15
|||||
Db 10 CTTCTTGTGC 1

RESULT 53
AX630798/c
LOCUS AX630798 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7839 from Patent WO02053774.
ACCESSION AX630798
VERSION AX630798.1 GI:28458838
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7839 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
Location/Qualifiers
source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTTCTTG 12
|||||
Db 11 CACCTTCTTG 2

RESULT 54
AX630817
LOCUS AX630817 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7858 from Patent WO02053774.
ACCESSION AX630817
VERSION AX630817.1 GI:28458857
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7858 11-JUL-2002;


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Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCCACCTTCT 10
Db 2 CCGCCTTCT 11

RESULT 55
AX630930/c
LOCUS
  AX630930
  DEFINITION
    Sequence 7971 from Patent WO02053774.
  ACCESSION
    AX630930
  VERSION
    AX630930.1 GI:28458972
  KEYWORDS
    Homo sapiens (human)
  SOURCE
    Homo sapiens
  ORGANISM
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  REFERENCE
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  AUTHORS
    Petersohn,D., Conradt,M. and Hofmann,K.
  TITLE
    Method for determining homeostasis of the skin
  JOURNAL
    Patent: WO 02053774-A 7971 11-JUL-2002;
    Henkel Kommanditgesellschaft auf Aktien (DE)
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Query Match
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Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CCACCTTCTT 11
Db 10 CCACCTTCTT 1

RESULT 56
AX632853
LOCUS
  AX632853
  DEFINITION
    Sequence 9895 from Patent WO02053774.
  ACCESSION
    AX632853
  VERSION
    AX632853.1 GI:28468468
  KEYWORDS
    Homo sapiens (human)
  SOURCE
    Homo sapiens
  ORGANISM
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  REFERENCE
    1
  AUTHORS
    Petersohn,D., Conradt,M. and Hofmann,K.
  TITLE
    Method for determining homeostasis of the skin
  JOURNAL
    Patent: WO 02053774-A 9895 11-JUL-2002;
    Henkel Kommanditgesellschaft auf Aktien (DE)
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Best Local Similarity 90.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CTTGGGCACA 18
Db 2 CTTGGGCACA 11

RESULT 57
AX480947
LOCUS
  AX480947
  DEFINITION
    Sequence 7 from Patent WO0246412.
  ACCESSION
    AX480947
  VERSION
    AX480947.1 GI:22217586
  KEYWORDS
    synthetic construct
    synthetic construct
    artificial sequences.
  SOURCE
    1
  ORGANISM
    Rebar,E., Jamieson,A., Liu,Q., Liu,P.Q., Wolffe,A., Eisenberg,S.P.
    and Jarvis,E.
  REFERENCE
    1
  AUTHORS
    Regulation of angiogenesis with zinc finger proteins
  TITLE
    Patent: WO 0246412-A 7 13-JUN-2002;
    Sangamo Biosciences Inc. (US)
  JOURNAL
    Location/Qualifiers
      1. .9
        /organism="synthetic construct"
        /mol_type="genomic DNA"
        /db_xref="taxon:32630"
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Query Match
  40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGGCACA 18
Db 1 TGGGCACA 8

RESULT 58
AX668629/c
LOCUS
  AX668629
  DEFINITION
    Sequence 2078 from Patent WO0242459.
  ACCESSION
    AX668629
  VERSION
    AX668629.1 GI:29291602
  KEYWORDS
    synthetic construct
    synthetic construct
    artificial sequences.
  SOURCE
    1
  ORGANISM
    Liu,Q.
  REFERENCE
    1
  AUTHORS
    Position dependent recognition of gnn nucleotide triplets by zinc
    fingers
  TITLE
    Patent: WO 0242459-A 2078 30-MAY-2002;
    Sangamo Biosciences Inc. (US)
  JOURNAL
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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTT 8
Db 8 CCCACCTT 1

RESULT 59
AX668630/c
LOCUS
  AX668630
  DEFINITION
    Sequence 2079 from Patent WO0242459.

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ACCESSION      AX668630
KEYWORDS       AX668630.1 GI:29291603
SOURCE         .
ORGANISM       synthetic construct
               synthetic construct
               artificial sequences.
REFERENCE      1
AUTHORS        Liu,Q.
TITLE          Position dependent recognition of gnn nucleotide triplets by zinc
               fingers
JOURNAL        Patent: WO 0242459-A 2079 30-MAY-2002;
               Sangamo Biosciences Inc. (US)
FEATURES       source
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               /organism="synthetic construct"
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Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches          8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY              1 CCCACCTT 8
Db              8 CCCACCTT 1

RESULT 60
AX668813/c
LOCUS          AX668813
DEFINITION     Sequence 2262 from Patent WO0242459.
ACCESSION      AX668813
VERSION        AX668813.1 GI:29291788
KEYWORDS       .
SOURCE         synthetic construct
               synthetic construct
               artificial sequences.
REFERENCE      1
AUTHORS        Liu,Q.
TITLE          Position dependent recognition of gnn nucleotide triplets by zinc
               fingers
JOURNAL        Patent: WO 0242459-A 2262 30-MAY-2002;
               Sangamo Biosciences Inc. (US)
FEATURES       source
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Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches          8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY              3 CACCTTCT 10
Db              9 CACCTTCT 2

RESULT 61
AX668814/c
LOCUS          AX668814
DEFINITION     Sequence 2263 from Patent WO0242459.
ACCESSION      AX668814
VERSION        AX668814.1 GI:29291789
KEYWORDS       .
SOURCE         synthetic construct
               synthetic construct
               artificial sequences.
REFERENCE      1
AUTHORS        Liu,Q.
TITLE          Position dependent recognition of gnn nucleotide triplets by zinc
               fingers
JOURNAL        Patent: WO 0242459-A 2263 30-MAY-2002;
               Sangamo Biosciences Inc. (US)
FEATURES       source
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Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches          8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY              3 CACCTTCT 10
Db              9 CACCTTCT 2

RESULT 62
AX668813/c
LOCUS          AX668813
DEFINITION     Sequence 2262 from Patent WO0242459.
ACCESSION      AX668813
VERSION        AX668813.1 GI:29291788
KEYWORDS       .
SOURCE         synthetic construct
               synthetic construct
               artificial sequences.
REFERENCE      1
AUTHORS        Liu,Q.
TITLE          Position dependent recognition of gnn nucleotide triplets by zinc
               fingers
JOURNAL        Patent: WO 0242459-A 2262 30-MAY-2002;
               Sangamo Biosciences Inc. (US)
FEATURES       source
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Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches          8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY              3 CACCTTCT 10
Db              9 CACCTTCT 2

RESULT 63
AX668814/c
LOCUS          AX668814
DEFINITION     Sequence 2263 from Patent WO0242459.
ACCESSION      AX668814
VERSION        AX668814.1 GI:29291789
KEYWORDS       .
SOURCE         synthetic construct
               synthetic construct
               artificial sequences.
REFERENCE      1
AUTHORS        Liu,Q.
TITLE          Position dependent recognition of gnn nucleotide triplets by zinc
               fingers
JOURNAL        Patent: WO 0242459-A 2263 30-MAY-2002;
               Sangamo Biosciences Inc. (US)
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Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches          8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY              1 CCCACCTT 8
Db              2 CCCACCTT 9

RESULT 63

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A15662
LOCUS       A15662               10 bp      DNA          linear      PAT 10-FEB-1994
DEFINITION  oligonucleotide.
ACCESSION   A15662
VERSION     A15662.1  GI:489794
KEYWORDS    .
SOURCE      synthetic construct
            artificial sequences.
REFERENCE   1  (bases 1 to 10)
AUTHORS     Verrips,C.T., Ledebor,A.M., Edens,L., Klok,R. and Maat,J.
TITLE       DNA sequences encoding various allelic forms of mature thaumatin,
            recombinant plasmids comprising said DNA's and a process for their
            preparation, bacterial cultures comprising said recombinant
            plasmids, and method for producing mature thaumatin
JOURNAL     Patent: EP 0054330-A 4 23-JUN-1982;
            UNILEVER NV; UNILEVER PLC
FEATURES             source
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            Location/Qualifiers
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"

Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2  CCACCTTC 9
        |||||||
DB      2  CCACCTTC 9

RESULT 64
BD238780
LOCUS       BD238780               10 bp      DNA          linear      PAT 17-JUL-2003
DEFINITION  Preparation and use of superior vaccines.
ACCESSION   BD238780
VERSION     BD238780.1  GI:33048550
KEYWORDS    JP 2002534056-A/198.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 10)
AUTHORS     Roberts,B.L. and Shankara,S.
TITLE       Preparation and use of superior vaccines
JOURNAL     Patent: JP 2002534056-A 198 15-OCT-2002;
            GENZYME CORP
COMMENT     OS Homo sapiens (human)
            PN JP 2002534056-A/198
            PD 15-OCT-2002
            PF 18-JUN-1999 JP 2000554749
            PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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            19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
            08-DEC-1998 US 60/111715
            PI BRUCE L ROBERTS,SRINIVAS SHANKARA
            PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
            C12N1/19,
            G01N33/50,G01N33/53,G01N33/566, PC
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            PC C12N15/00,C12N5/00,C12N15/00
            CC Preparation and use of superior vaccines
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Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      3 CACCTTCT 10
Db      2 CACCTTCT 9

RESULT 66
BD238880
LOCUS   BD238880
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238880
VERSION   1 GI:33048650
KEYWORDS BD238880.1 GI:33048650
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS  Roberts,B.L. and Shankara,S.
TITLE    Preparation and use of superior vaccines
JOURNAL  Patent: JP 2002534056-A 298 15-OCT-2002;
          GENZYME CORP
COMMENT  OS Homo sapiens (human)
          PN JP 2002534056-A/298
          PD 15-OCT-2002
          PF 18-JUN-1999 JP 2000554749
          PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
          19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
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          19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
          08-DEC-1998 US 60/111715
          PI BRUCE L ROBERTS,SRINIVAS SHANKARA
          PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
          C12N1/19,
          PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      13 GGCAGAG 20
Db      9 GGCAGAG 2

RESULT 68
BD239952
LOCUS   BD239952
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239952
VERSION   1 GI:33049722
KEYWORDS BD239952.1 GI:33049722
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS  Roberts,B.L. and Shankara,S.
TITLE    Preparation and use of superior vaccines
JOURNAL  Patent: JP 2002534056-A 1370 15-OCT-2002;
          GENZYME CORP
COMMENT  OS Homo sapiens (human)
          PN JP 2002534056-A/1370
          PD 15-OCT-2002
          PF 18-JUN-1999 JP 2000554749

QY      3 CACCTTCT 10
Db      2 CACCTTCT 9

RESULT 67
BD239283/c
LOCUS   BD239283
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239283
VERSION   1 GI:33049053
KEYWORDS BD239283.1 GI:33049053
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS  Roberts,B.L. and Shankara,S.
TITLE    Preparation and use of superior vaccines
JOURNAL  Patent: JP 2002534056-A 701 15-OCT-2002;
          GENZYME CORP
COMMENT  OS Homo sapiens (human)
          PN JP 2002534056-A/701
          PD 15-OCT-2002
          PF 18-JUN-1999 JP 2000554749

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PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/53,G01N33/566,PC
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Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GGCAGAAG 20
Db 1 GGCAGAAG 8

RESULT 69
BD240374
LOCUS BD240374 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240374
VERSION BD240374.1 GI:33050144
KEYWORDS JP 2002534056-A/1792.
SOURCE Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 10)
Robert,B.L. and Shankara,S.
AUTHORS
Preparation and use of superior vaccines
TITLE
Patent: JP 2002534056-A 1792 15-OCT-2002;
JOURNAL
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1792
PD 15-OCT-2002
PF 18-JUN-1998 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
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G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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FEATURES
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/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GGCAGAAG 20
Db 1 GGCAGAAG 8

RESULT 70
BD240388/c
LOCUS BD240388 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240388
VERSION BD240388.1 GI:33050158
KEYWORDS JP 2002534056-A/1806.
SOURCE Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 10)
Robert,B.L. and Shankara,S.
AUTHORS
Preparation and use of superior vaccines
TITLE
Patent: JP 2002534056-A 1806 15-OCT-2002;
JOURNAL
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1806
PD 15-OCT-2002
PF 18-JUN-1998 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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08-DEC-1998 US 60/111715 60/090045 PR
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PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15,PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/53,G01N33/566,PC
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PC C12N15/00,C12N5/00,C12N15/00
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C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/53,G01N33/566,PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
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Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CCTTCTTG 12
Db 1 CCTTCTTG 8

RESULT 70
BD240388/c
LOCUS BD240388 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240388
VERSION BD240388.1 GI:33050158
KEYWORDS JP 2002534056-A/1806.
SOURCE Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 10)
Robert,B.L. and Shankara,S.
AUTHORS
Preparation and use of superior vaccines
TITLE
Patent: JP 2002534056-A 1806 15-OCT-2002;
JOURNAL
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1806
PD 15-OCT-2002
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PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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PC C12N1/21,C12N5/10,G01N33/15,G01N33/53,G01N33/566,PC
G01N37/00,
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CC Preparation and use of superior vaccines
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QY      13 GGCAGAG 20
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Db      9 GGCAGAG 2

RESULT 71
BD240561/c
LOCUS      BD240561.1 GI:33050331
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD240561
VERSION     BD240561.1
KEYWORDS    JP 2002534056-A/1979.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Roberts,B.L. and Shankara,S.
TITLE       Preparation and use of superior vaccines
JOURNAL     Patent: JP 2002534056-A 1979 15-OCT-2002;
            GENZYME CORP
COMMENT     OS Homo sapiens (human)
            PN JP 2002534056-A/1979
            PD 15-OCT-2002
            PF 18-JUN-1999 JP 2000554749
            PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
            19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
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            08-DEC-1998 US 60/111715
            PI BRUCE L ROBERTS,SRINIVAS SHANKARA
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            C12N1/19
            PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566,PC
            G01N37/00,
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Query Match      40.0%; Score 8; DB 1; Length 10;
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Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 CCACCTTC 9
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Db      9 CCACCTTC 2

RESULT 72
I19168/c
LOCUS      I19168
DEFINITION Sequence 31 from patent US 5502176.
ACCESSION  I19168
VERSION     I19168.1 GI:1599523
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Tenen,D.G., Pahl,H.L. and Burn,T.C.
TITLE       Myeloid cell specific promoter
JOURNAL     Patent: US 5502176-A 31 26-MAR-1996;
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            1. .10
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Query Match      40.0%; Score 8; DB 1; Length 10;
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QY      13 GGCAGAG 20
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Db      8 GGCAGAG 1

RESULT 73
I19170/c
LOCUS      I19170
DEFINITION Sequence 33 from patent US 5502176.
ACCESSION  I19170
VERSION     I19170.1 GI:1599525
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Tenen,D.G., Pahl,H.L. and Burn,T.C.
TITLE       Myeloid cell specific promoter
JOURNAL     Patent: US 5502176-A 33 26-MAR-1996;
            Location/Qualifiers
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Query Match      40.0%; Score 8; DB 1; Length 10;
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Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      12 GGCAGAG 19
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Db      10 GGCAGAG 3

RESULT 74
AR303345/c
LOCUS      AR303345
DEFINITION Sequence 70 from patent US 6544736.
ACCESSION  AR303345
VERSION     AR303345.1 GI:31692121
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and
            Watahiki,M.
TITLE       Method for synthesizing cDNA from mRNA sample
JOURNAL     Patent: US 6544736-A 70 08-APR-2003;
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Qy 12 GGCAGAA 19
Db 10 GGCAGAA 3

RESULT 75
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LOCUS AX152217 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 132 from Patent WO0138577.
ACCESSION AX152217
VERSION AX152217.1 GI:14533868
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
Human transcriptomes
Patent: WO 0138577-A 132 31-MAY-2001;
The Johns Hopkins University (US)
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Query Match
Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CCTTCTTG 12
Db 1 CCTTCTTG 8

RESULT 76
AX153242/c
LOCUS AX153242/c 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 1157 from Patent WO0138577.
ACCESSION AX153242
VERSION AX153242.1 GI:14534893
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
Human transcriptomes
Patent: WO 0138577-A 1157 31-MAY-2001;
The Johns Hopkins University (US)
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Query Match
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Qy 3 CACCTTCT 10
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/organism="unknown"
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Query Match
Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 GGCAGAA 19
Db 10 GGCAGAA 3

RESULT 77
AX301610/c
LOCUS AX301610/c 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 324 from Patent WO0185941.
ACCESSION AX301610
VERSION AX301610.1 GI:17382693
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Versteeg,R. and Caron,H.N.
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Patent: WO 0185941-A 324 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
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Qy 13 GGCAGAA 20
Db 9 GGCAGAA 2

RESULT 78
BD238878/c
LOCUS BD238878/c 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238878
VERSION BD238878.1 GI:33048648
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Roberts,B.L. and Shankara,S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 296 15-OCT-2002;
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/296
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00,

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Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      15 CAGAAG 20
DB      10 CAGAAG 5

RESULT 79
BD240388
LOCUS      Preparation and use of superior vaccines.          linear          PAT 17-JUL-2003
DEFINITION
ACCESSION      BD240388
VERSION      JP 2002534056-A/1806.
KEYWORDS      Homo sapiens (human).
SOURCE      Homo sapiens
ORGANISM      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1 (bases 1 to 10)
  Roberts,B.L. and Shankara,S.
  Preparation and use of superior vaccines
  Patent: JP 2002534056-A 1806 15-OCT-2002;
  GENZYME CORP
  OS      Homo sapiens (human)
  PN      JP 2002534056-A/1806
  PD      15-OCT-2002
  PE      18-JUN-1999 JP 2000554749
  PR      19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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  19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
  08-DEC-1998 US 60/1111715
  PI      BRUCE L. ROBERTS,SRINIVAS SHANKARA
  PC      C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
  C12N1/19,
  PC      C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
  G01N37/00,
  PC      C12N15/00,C12N5/00,C12N15/00
CC      Preparation and use of superior vaccines
FH      Key      Location/Qualifiers
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FT      source      /organism='Homo sapiens (human)'.

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Query Match      30.0%; Score 6; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 82;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      15 CAGAAG 20
DB      10 CAGAAG 5

RESULT 80
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LOCUS      Sequence 1157 from Patent WO0138577.          linear          PAT 22-JUN-2001
DEFINITION
ACCESSION      AX153242
VERSION      AX153242.1 GI:14534893
KEYWORDS      Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1
  Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
  Human transcriptomes
  Patent: WO 0138577-A 1157 31-MAY-2001;
  The Johns Hopkins University (US)
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QY      15 CAGAAG 20
DB      2 CAGAAG 7

RESULT 81
AX625163/c
LOCUS      Sequence 2204 from Patent WO02053774.          linear          PAT 21-FEB-2003
DEFINITION
ACCESSION      AX625163
VERSION      AX625163.1 GI:28453104
KEYWORDS      Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1
  Petersohn,D., Conradt,M. and Hofmann,K.
  Method for determining homeostasis of the skin
  Patent: WO 02053774-A 2204 11-JUL-2002;
  Henkel Kommanditgesellschaft auf Aktien (DE)
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QY      5 CCTTCT 10
DB      10 CCTTCT 5

RESULT 82
AX632584/c
LOCUS      Sequence 9626 from Patent WO02053774.          linear          PAT 21-FEB-2003
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ACCESSION AX632584
VERSION AX632584.1 GI:28468199
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9626 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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/mol_type="unassigned DNA"
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Query Match 30.0%; Score 6; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 CTTCT 10
DB 10 CTTCT 5
RESULT 83
AX471678/c
LOCUS AX471678 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1255 from Patent WO02053773.
ACCESSION AX471678
VERSION AX471678.1 GI:22206803
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 1255 11-JUL-2002;
HENKEL KGAA (DE)
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Best Local Similarity 100.0%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 15 CAGAAG 20
DB 10 CAGAAG 5
RESULT 84
AX627792/c
LOCUS AX627792 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4833 from Patent WO02053774.
ACCESSION AX627792
VERSION AX627792.1 GI:28455830
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4833 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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source
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 30.0%; Score 6; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 15 CAGAAG 20
DB 10 CAGAAG 5
RESULT 85
AX152798
LOCUS AX152798 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 713 from Patent WO0138577.
ACCESSION AX152798
VERSION AX152798.1 GI:14534449
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptionsomes
JOURNAL Patent: WO 0138577-A 713 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES
source
1..10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 27.0%; Score 5.4; DB 1; Length 10;
Best Local Similarity 85.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 14 GCAGAAG 20
DB 1 GCACAAG 7
RESULT 86
AX301616
LOCUS AX301616 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 330 from Patent WO0185941.
ACCESSION AX301616
VERSION AX301616.1 GI:17382699
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 330 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES
source
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 27.0%; Score 5.4; DB 1; Length 10;
Best Local Similarity 85.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      14 GCAGAG 20
Db      1 GCACAG 7

RESULT 87
LOCUS   BD166511
DEFINITION Human liver disease-expressing genes.
ACCESSION BD166511
VERSION   BD166511.1 GI:27872323
KEYWORDS JP 2002209591-A/56.
SOURCE   unidentified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Matsushima,K., Hashimoto,S., Kaneko,S. and Yamashita,T.
TITLE Human liver disease-expressing genes
JOURNAL Patent: JP 2002209591-A 56 30-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT OS Homo sapiens (human)
PN JP 2002209591-A/56
PD 30-JUL-2002
PF 19-JAN-2001 JP 2001012328
PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO PI
YAMASHITA
PC C12N15/09, C07K14/47, C07K16/18, G01N33/15, G01N33/50//C12P21/02,
PC C12P21/08,
PC C12N15/00
CC Human liver disease-expressing genes
FH Key Location/Qualifiers
FT source 1..10
FT /organism='Homo sapiens (human)'.

FEATURES
source
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 27.0%; Score 5.4; DB 1; Length 10;
Best Local Similarity 85.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      14 GCAGAG 20
Db      1 GCACAG 7

RESULT 88
LOCUS   BD239952/c
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239952
VERSION   BD239952.1 GI:33049722
KEYWORDS JP 2002534056-A/1370.
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.I. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1370 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1370
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PI 19-JUN-1998 US 60/090039, 19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041, 19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997, 19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035, 19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992, 19-JUN-1998 US 60/090072 PR

QY      14 GCAGAG 20
Db      1 GCACAG 7

RESULT 89
LOCUS   AX629947
DEFINITION Sequence 6988 from Patent WO02053774.
ACCESSION AX629947
VERSION   AX629947.1 GI:28457985
KEYWORDS
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6988 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 27.0%; Score 5.4; DB 1; Length 11;
Best Local Similarity 85.7%; Pred. No. 94;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      14 GCAGAG 20
Db      1 GCACAG 7

RESULT 90
LOCUS   AX626949/c
DEFINITION Sequence 3990 from Patent WO02053774.
ACCESSION AX626949
VERSION   AX626949.1 GI:28454987
KEYWORDS

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19-JUN-1998 US 60/089878, 19-JUN-1998 US 60/089991 PR
60/090000, 19-JUN-1998 US 60/090048 PR
19-JUN-1998 US 60/089999, 19-JUN-1998 US 60/090043 PR
19-JUN-1998 US 60/090042, 19-JUN-1998 US 60/090036 PR
19-JUN-1998 US 60/090044, 19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/090080, 19-JUN-1998 US 60/089833 PR
19-JUN-1998 US 60/089994, 19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078, 19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076, 19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
FT /organism='Homo sapiens (human)'.

FEATURES
source
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 27.0%; Score 5.4; DB 1; Length 10;
Best Local Similarity 85.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      4 ACCTTCT 10
Db      10 ATCTTCT 4

RESULT 89
LOCUS   AX629947
DEFINITION Sequence 6988 from Patent WO02053774.
ACCESSION AX629947
VERSION   AX629947.1 GI:28457985
KEYWORDS
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6988 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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source
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 27.0%; Score 5.4; DB 1; Length 11;
Best Local Similarity 85.7%; Pred. No. 94;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      14 GCAGAG 20
Db      1 GCACAG 7

RESULT 90
LOCUS   AX626949/c
DEFINITION Sequence 3990 from Patent WO02053774.
ACCESSION AX626949
VERSION   AX626949.1 GI:28454987
KEYWORDS

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SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Petersohn,D., Conradt,M. and Hofmann,K.
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 3990 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES    Location/Qualifiers
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            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
Query Match      26.0%; Score 5.2; DB 1; Length 11;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      7 TTCTTGGGCA 16
Db      11 TTCTTGGCCA 2

RESULT 91
AX627089      11 bp      DNA      linear      PAT 21-FEB-2003
LOCUS         Sequence 4130 from Patent WO02053774.
ACCESSION     AX627089
VERSION       AX627089.1 GI:28455127
KEYWORDS      .
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1
AUTHORS       Petersohn,D., Conradt,M. and Hofmann,K.
TITLE         Method for determining homeostasis of the skin
JOURNAL       Patent: WO 02053774-A 4130 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES      Location/Qualifiers
            1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
Query Match      26.0%; Score 5.2; DB 1; Length 11;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      10 TTGGGCAGAA 19
Db      1 TTGCCCAAA 10

RESULT 92
AX632853/c    11 bp      DNA      linear      PAT 21-FEB-2003
LOCUS         Sequence 9895 from Patent WO02053774.
ACCESSION     AX632853
VERSION       AX632853.1 GI:28468468
KEYWORDS      .
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1
AUTHORS       Petersohn,D., Conradt,M. and Hofmann,K.
TITLE         Method for determining homeostasis of the skin
JOURNAL       Patent: WO 02053774-A 9895 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES      Location/Qualifiers
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            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
Query Match      26.0%; Score 5.2; DB 1; Length 11;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      10 TTGGGCAGAA 19
Db      1 TTGCCCAAA 10

RESULT 93
AX668629      9 bp      DNA      linear      PAT 26-MAR-2003
LOCUS         Sequence 2078 from Patent WO0242459.
ACCESSION     AX668629
VERSION       AX668629.1 GI:29291602
KEYWORDS      .
SOURCE        synthetic construct
            synthetic construct
            artificial sequences.
REFERENCE     1
AUTHORS       Liu,Q.
TITLE         Position dependent recognition of gmn nucleotide triplets by zinc
            fingers
JOURNAL       Patent: WO 0242459-A 2078 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES      Location/Qualifiers
            1..9
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 TGGGC 15
Db      5 TGGGC 9

RESULT 94
AX668630      9 bp      DNA      linear      PAT 26-MAR-2003
LOCUS         Sequence 2079 from Patent WO0242459.
ACCESSION     AX668630
VERSION       AX668630.1 GI:29291603
KEYWORDS      .
SOURCE        synthetic construct
            synthetic construct
            artificial sequences.
REFERENCE     1
AUTHORS       Liu,Q.
TITLE         Position dependent recognition of gmn nucleotide triplets by zinc
            fingers
JOURNAL       Patent: WO 0242459-A 2079 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES      Location/Qualifiers
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            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 TGGGC 15
Db      5 TGGGC 9

RESULT 95
AX668630      9 bp      DNA      linear      PAT 26-MAR-2003
LOCUS         Sequence 2079 from Patent WO0242459.
ACCESSION     AX668630
VERSION       AX668630.1 GI:29291603
KEYWORDS      .
SOURCE        synthetic construct
            synthetic construct
            artificial sequences.
REFERENCE     1
AUTHORS       Liu,Q.
TITLE         Position dependent recognition of gmn nucleotide triplets by zinc
            fingers
JOURNAL       Patent: WO 0242459-A 2079 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES      Location/Qualifiers
            1..9
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            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 TGGGC 15
Db      5 TGGGC 9
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SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Petersohn,D., Conradt,M. and Hofmann,K.
TITLE       Method for determining homeostasis of the skin
JOURNAL     Patent: WO 02053774-A 3990 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES    Location/Qualifiers
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Query Match      26.0%; Score 5.2; DB 1; Length 11;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      7 TTCTTGGGCA 16
Db      11 TTCTTGGCCA 2

RESULT 91
AX627089      11 bp      DNA      linear      PAT 21-FEB-2003
LOCUS         Sequence 4130 from Patent WO02053774.
ACCESSION     AX627089
VERSION       AX627089.1 GI:28455127
KEYWORDS      .
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1
AUTHORS       Petersohn,D., Conradt,M. and Hofmann,K.
TITLE         Method for determining homeostasis of the skin
JOURNAL       Patent: WO 02053774-A 4130 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES      Location/Qualifiers
            1..11
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            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
Query Match      26.0%; Score 5.2; DB 1; Length 11;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      10 TTGGGCAGAA 19
Db      1 TTGCCCAAA 10

RESULT 92
AX632853/c    11 bp      DNA      linear      PAT 21-FEB-2003
LOCUS         Sequence 9895 from Patent WO02053774.
ACCESSION     AX632853
VERSION       AX632853.1 GI:28468468
KEYWORDS      .
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE     1
AUTHORS       Petersohn,D., Conradt,M. and Hofmann,K.
TITLE         Method for determining homeostasis of the skin
JOURNAL       Patent: WO 02053774-A 9895 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES      Location/Qualifiers
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            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"
Query Match      26.0%; Score 5.2; DB 1; Length 11;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      10 TTGGGCAGAA 19
Db      1 TTGCCCAAA 10

RESULT 93
AX668629      9 bp      DNA      linear      PAT 26-MAR-2003
LOCUS         Sequence 2078 from Patent WO0242459.
ACCESSION     AX668629
VERSION       AX668629.1 GI:29291602
KEYWORDS      .
SOURCE        synthetic construct
            synthetic construct
            artificial sequences.
REFERENCE     1
AUTHORS       Liu,Q.
TITLE         Position dependent recognition of gmn nucleotide triplets by zinc
            fingers
JOURNAL       Patent: WO 0242459-A 2078 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES      Location/Qualifiers
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            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 TGGGC 15
Db      5 TGGGC 9

RESULT 94
AX668630      9 bp      DNA      linear      PAT 26-MAR-2003
LOCUS         Sequence 2079 from Patent WO0242459.
ACCESSION     AX668630
VERSION       AX668630.1 GI:29291603
KEYWORDS      .
SOURCE        synthetic construct
            synthetic construct
            artificial sequences.
REFERENCE     1
AUTHORS       Liu,Q.
TITLE         Position dependent recognition of gmn nucleotide triplets by zinc
            fingers
JOURNAL       Patent: WO 0242459-A 2079 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES      Location/Qualifiers
            1..9
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            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 TGGGC 15
Db      5 TGGGC 9

RESULT 95
AX668630      9 bp      DNA      linear      PAT 26-MAR-2003
LOCUS         Sequence 2079 from Patent WO0242459.
ACCESSION     AX668630
VERSION       AX668630.1 GI:29291603
KEYWORDS      .
SOURCE        synthetic construct
            synthetic construct
            artificial sequences.
REFERENCE     1
AUTHORS       Liu,Q.
TITLE         Position dependent recognition of gmn nucleotide triplets by zinc
            fingers
JOURNAL       Patent: WO 0242459-A 2079 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES      Location/Qualifiers
            1..9
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 TGGGC 15
Db      5 TGGGC 9
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Db          5 TGGGC 9
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RESULT 95
AX668813
LOCUS      AX668813          9 bp  DNA          linear  PAT 26-MAR-2003
DEFINITION Sequence 2262 from Patent WO0242459.
ACCESSION  AX668813
VERSION     AX668813.1  GI:29291788
KEYWORDS   .
SOURCE      synthetic construct
            artificial sequences.
ORGANISM
REFERENCE  1
AUTHORS    Liu,Q.
TITLE      Position dependent recognition of gnn nucleotide triplets by zinc
            fingers
JOURNAL    Patent: WO 0242459-A 2262 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES   source
            1..9
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          16 AGAAG 20
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Db          2 AGAAG 6

RESULT 96
AX668814
LOCUS      AX668814          9 bp  DNA          linear  PAT 26-MAR-2003
DEFINITION Sequence 2263 from Patent WO0242459.
ACCESSION  AX668814
VERSION     AX668814.1  GI:29291789
KEYWORDS   .
SOURCE      synthetic construct
            artificial sequences.
ORGANISM
REFERENCE  1
AUTHORS    Liu,Q.
TITLE      Position dependent recognition of gnn nucleotide triplets by zinc
            fingers
JOURNAL    Patent: WO 0242459-A 2263 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES   source
            1..9
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="example target DNA"
Query Match      25.0%; Score 5; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          16 AGAAG 20
|||||
Db          2 AGAAG 6

RESULT 97
BD239813
LOCUS      BD239813          10 bp  DNA          linear  PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD239813

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VERSION     BD239813.1  GI:33049583
KEYWORDS    JP 2002534056-A/1231.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1  (bases 1 to 10)
AUTHORS    Roberts,B.L. and Shankara,S.
TITLE      Preparation and use of superior vaccines
JOURNAL    Patent: JP 2002534056-A 1231 15-OCT-2002;
            GENZYME CORP
COMMENT     OS Homo sapiens (human)
            PN JP 2002534056-A/1231
            PD 15-OCT-2002
            PF 18-JUN-1999 JP 2000554749
            PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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            19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
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            08-DEC-1998 US 60/111715
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            C12N1/19
            PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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QY          16 AGAAG 20
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Db          2 AGAAG 6

RESULT 98
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LOCUS      BD239283          10 bp  DNA          linear  PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD239283
VERSION     BD239283.1  GI:33049053
KEYWORDS    JP 2002534056-A/701.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1  (bases 1 to 10)
AUTHORS    Roberts,B.L. and Shankara,S.
TITLE      Preparation and use of superior vaccines
JOURNAL    Patent: JP 2002534056-A 701 15-OCT-2002;
            GENZYME CORP
COMMENT     OS Homo sapiens (human)
            PN JP 2002534056-A/701

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19-JUN-1998 US 60/08997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089933 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
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QY 6 CTTCT 10
Db 2 CTTCT 6

RESULT 99
BD240374/c
LOCUS 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240374
VERSION BD240374.1 GI:33050144
KEYWORDS JP 2002534056-A/1792.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 10)
Robert, B.L. and Shankara, S.
Preparation and use of superior vaccines
TITLE Patent: JP 2002534056-A 1792 15-OCT-2002;
JOURNAL GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1792
PD 15-OCT-2002
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19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
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08-DEC-1998 US 60/111715
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCT 10
Db 2 CTTCT 6

RESULT 100
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LOCUS 10 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 31 from patent US 5502176.
ACCESSION I19168
VERSION I19168.1 GI:1599523
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Tenen, D.G., Pahl, H.L. and Burn, T.C.
TITLE Myeloid cell specific promoter
JOURNAL Patent: US 5502176-A 31 26-MAR-1996;
FEATURES Location/Qualifiers
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCT 10
Db 1 CTTCT 5

RESULT 101
AX152217/c
LOCUS 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 132 from Patent WO0138577.
ACCESSION AX152217
VERSION AX152217.1 GI:14533868
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
Velculescu, V.E., Vogelstein, B. and Kinzler, K.W.
Human transcritomes
TITLE Patent: WO 0138577-A 132 31-MAY-2001;
JOURNAL The Johns Hopkins University (US)

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19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
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CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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QY 16 AGAAG 20
Db 6 AGAAG 2

RESULT 100
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LOCUS 10 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 31 from patent US 5502176.
ACCESSION I19168
VERSION I19168.1 GI:1599523
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Tenen, D.G., Pahl, H.L. and Burn, T.C.
TITLE Myeloid cell specific promoter
JOURNAL Patent: US 5502176-A 31 26-MAR-1996;
FEATURES Location/Qualifiers
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QY 6 CTTCT 10
Db 1 CTTCT 5

RESULT 101
AX152217/c
LOCUS 10 bp DNA linear PAT 22-JUN-2001
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ACCESSION AX152217
VERSION AX152217.1 GI:14533868
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Velculescu, V.E., Vogelstein, B. and Kinzler, K.W.
Human transcritomes
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Qy 16 AGAAG 20
Db 6 AGAAG 2

RESULT 102
LOCUS AX301610 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 324 from Patent WO0185941.
ACCESSION AX301610
VERSION AX301610.1 GI:17382693
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 324 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
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Qy 6 CTCTT 10
Db 2 CTCTT 6

RESULT 103
AX623364/c
LOCUS AX623364 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 405 from Patent WO02053774.
ACCESSION AX623364
VERSION AX623364.1 GI:28451305
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 405 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Qy 16 AGAAG 20
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RESULT 104
AX630785/c
LOCUS AX630785 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7826 from Patent WO02053774.
ACCESSION AX630785
VERSION AX630785.1 GI:28458825
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7826 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Qy 16 AGAAG 20
Db 6 AGAAG 2

RESULT 105
AR353840/c
LOCUS AR353840 11 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 15 from patent US 6593111.
ACCESSION AR353840
VERSION AR353840.1 GI:33759907
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 11)
AUTHORS Baric,R.S. and Yount,B.
TITLE Directional assembly of large viral genomes and chromosomes
JOURNAL Patent: US 6593111-A 15 15-JUL-2003;
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Qy 16 AGAAG 20
Db 7 AGAAG 3

RESULT 106
AR074494
LOCUS AR074494 11 bp DNA linear PAT 28-AUG-2000
DEFINITION Sequence 73 from patent US 5955075.
ACCESSION AR074494
VERSION AR074494.1 GI:10001249
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
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REFERENCE 1 (bases 1 to 11)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Method of inhibiting tumor growth using antibodies to MN protein
JOURNAL Patent: US 595075-A 73 21-SEP-1999;
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Query Match      25.0%; Score 5; DB 1; Length 11;
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGC 15
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Db 7 TGGGC 11

RESULT 107
AR081174
LOCUS AR081174 11 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 73 from patent US 5972353.
ACCESSION AR081174
VERSION AR081174.1 GI:10007902
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 11)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE MN proteins, polypeptides, fusion proteins and fusion polypeptides
JOURNAL Patent: US 5972353-A 73 26-OCT-1999;
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Query Match      25.0%; Score 5; DB 1; Length 11;
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGC 15
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RESULT 108
AR085371
LOCUS AR085371 11 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 73 from patent US 5981711.
ACCESSION AR085371
VERSION AR085371.1 GI:10012140
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 11)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE MN-specific antibodies and hybridomas
JOURNAL Patent: US 5981711-A 73 09-NOV-1999;
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGC 15
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RESULT 109
AR088119
LOCUS AR088119 11 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 73 from patent US 5989838.
ACCESSION AR088119
VERSION AR088119.1 GI:10014882
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 11)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Immunological methods of detecting MN proteins and MN polypeptides
JOURNAL Patent: US 5989838-A 73 23-NOV-1999;
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QY 11 TGGGC 15
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Db 7 TGGGC 11

RESULT 110
AR104278
LOCUS AR104278 11 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 73 from patent US 6093548.
ACCESSION AR104278
VERSION AR104278.1 GI:12816986
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 11)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE Detection and quantitation of MN-specific antibodies
JOURNAL Patent: US 6093548-A 73 25-JUL-2000;
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Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGC 15
    |||||
Db 7 TGGGC 11

RESULT 111
AR143540
LOCUS AR143540 11 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 73 from patent US 6204370.
ACCESSION AR143540
VERSION AR143540.1 GI:15104826
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 11)
AUTHORS Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE MN gene and protein
JOURNAL Patent: US 6204370-A 73 20-MAR-2001;
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Db		7 TGGGC 11					
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DEFINITION		AR171446					
ACCESSION		AR171446					
VERSION		AR171446.1		GI:17910396			
KEYWORDS		Unknown.					
SOURCE		Unknown.					
ORGANISM		Unclassified.					
REFERENCE		1 (bases 1 to 11)					
AUTHORS		Zavada,J., Pastorekova,S. and Pastorek,J.					
TITLE		MN gene and protein					
JOURNAL		Patent: US 6297041-A 73 02-OCT-2001;					
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source		1..11		/organism="unknown"		/mol_type="unassigned DNA"	
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Db		7 TGGGC 11					
RESULT 113		AR171617		11 bp		DNA	
LOCUS		Sequence 73 from patent US 6297051.		linear		PAT 17-DEC-2001	
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ACCESSION		AR171617					
VERSION		AR171617.1		GI:17910567			
KEYWORDS		Unknown.					
SOURCE		Unknown.					
ORGANISM		Unclassified.					
REFERENCE		1 (bases 1 to 11)					
AUTHORS		Zavada,J., Pastorekova,S. and Pastorek,J.					
TITLE		MN gene and protein					
JOURNAL		Patent: US 6297051-A 73 02-OCT-2001;					
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Matches		5; Conservative		0;		Gaps 0;	
QY		11 TGGGC 15					
Db		7 TGGGC 11					
RESULT 114		BD243207		11 bp		DNA	
LOCUS		Sequence 73 from patent US 6297041.		linear		PAT 17-JUL-2003	
DEFINITION		BD243207					
ACCESSION		BD243207					
Query Match		25.0%; Score 5; DB 1; Length 11;		0; Mismatches 0;		Indels 0;	
Best Local Similarity		100.0%; Pred. No. 1.1e+02;		0; Mismatches 0;		Indels 0;	
Matches		5; Conservative		0;		Gaps 0;	
QY		11 TGGGC 15					
Db		7 TGGGC 11					
RESULT 115		AX623396		11 bp		DNA	
LOCUS		Sequence 437 from Patent WO02053774.		linear		PAT 21-FEB-2003	
DEFINITION		AX623396					
ACCESSION		AX623396					
VERSION		AX623396.1		GI:28451337			
KEYWORDS		Homo sapiens (human)					
SOURCE		Homo sapiens					
ORGANISM		Homo sapiens					
REFERENCE		1					
AUTHORS		Petersohn,D., Conradt,M. and Hofmann,K.					
TITLE		Method for determining homeostasis of the skin					
JOURNAL		Patent: WO 02053774-A 437 11-JUL-2002;					
FEATURES		Location/Qualifiers					
source		1..11		/organism="Homo sapiens"		/mol_type="unassigned DNA"	
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Matches		5; Conservative		0;		Gaps 0;	
QY		16 AGAAG 20					
Db		11 AGAAG 7					
RESULT 116		AX630817		11 bp		DNA	
LOCUS		AX630817/C		linear		PAT 21-FEB-2003	

BD243207.1 GI:33052977
JP 2002528085-A/56.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 11)
Zavada,J., Pastorekova,S. and Pastorek,J.
MN gene and protein
Patent: JP 2002528085-A 56 03-SEP-2002;
INSTITUTE OF VIROLOGY
OS Homo sapiens (human)
PN JP 2002528085-A/56
PD 03-SEP-2002
PF 22-OCT-1999 JP 2000578465
PR 23-OCT-1998 US 09/177776,23-OCT-1998 US 09/178115 PI
JAN ZAVADA,SILVIA PASTOREKOVA,JAROMIR PASTOREK PC
C12N15/09,A61K38/00,A61K39/395,A61K48/00,A61P35/00, PC
C07K14/47,
PC C12Q1/02,G01N33/566//C12Q1/02,C12R1:91),C12N15/00,A61K37/02
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QY 11 TGGGC 15
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AX623396/C
LOCUS
DEFINITION Sequence 437 from Patent WO02053774.
ACCESSION AX623396
VERSION AX623396.1 GI:28451337
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 437 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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LOCUS


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DEFINITION Sequence 7858 from Patent WO02053774.
ACCESSION AX630817
VERSION AX630817.1 GI:28458857
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominiidae; Homo.
TITLE Petersohn,D., Conradt,M. and Hofmann,K.
JOURNAL Method for determining homeostasis of the skin
PATENT: WO 02053774-A 7858 11-JUL-2002;
JOURNAL Henkel Kommanditgesellschaft auf Aktien (DE)
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QY 16 AGAAG 20
DB 11 AGAAG 7
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BD061440/c
LOCUS BD061440 15 bp DNA linear PAT 27-AUG-2002
DEFINITION Method for selectively separating living cell expressed with
specific gene.
ACCESSION BD061440
VERSION BD061440.1 GI:22607046
KEYWORDS JP 2001286285-A/2.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 15)
AUTHORS Ishibashi,K. and Tsuji,A.
TITLE Method for selectively separating living cell expressed with
specific gene
JOURNAL Patent: JP 2001286285-A 2 16-OCT-2001;
COMMENT LABORATORY OF MOLECULAR BIOPHOTONICS
PN JP 2001286285-A/2
PD 16-OCT-2001
PF 28-APR-2000 JP 2000130793
PI KANAME ISHIBASHI,AKIHIKO TSUJI
PC C12N15/09,C12N1/02,C12N5/10,C12Q1/68,G01N33/48,G01N33/53, PC
G01N33/566,
PC G01N33/58/(C12N1/02,C12R1:91), (C12Q1/68,C12R1:91),C12N15/00,
PC C12N5/00
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QY 16 AGAAG 20
DB 8 AGAAG 4
RESULT 118
AX412934/c
LOCUS AX412934 11 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 698 from Patent WO0222675.
ACCESSION AX412934
VERSION AX412934.1 GI:21445392
KEYWORDS Arabidopsis thaliana (thale cress)
SOURCE Arabidopsis thaliana
ORGANISM Arabidopsis thaliana
REFERENCE Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
AUTHORS Glazebrook,J., Wang,X., Dangl,J.L., Eulgem,T. and Zhu,T.
TITLE Plant genes, the expression of which are altered by pathogen
infection
JOURNAL Patent: WO 0222675-A 698 21-MAR-2002;
JOURNAL Syngenta Participations AG (CH); UNIVERSITY OF NORTH CAROLINA AT
CHAPEL HILL (US); Glazebrook, Jan (US); Wang, Xun (US); Dangl,
Jeffrey L. (US); Eulgem, Thomas (US)
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QY 8 TCTTGGCAGA 18
DB 11 TTTTGCCCAA 1
RESULT 119
BD161343/c
LOCUS BD161343 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161343
VERSION BD161343.1 GI:27867101
KEYWORDS JP 2002186482-A/165.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominiidae; Homo.
TITLE Nagai,S., Matsushima,K. and Hashimoto,S.
JOURNAL Human activated Th1 and Th2 cell expression genes
PATENT: JP 2002186482-A 165 02-JUL-2002;
COMMENT JAPAN SCIENCE AND TECHNOLOGY CORP
OS Homo sapiens (human)
PN JP 2002186482-A/165
PD 02-JUL-2002
PF 19-DEC-2000 JP 2000385816
PI SHIGENORI NAGAI,KOJI MATSUSHIMA,SHINICHI HASHIMOTO PC
C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
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DB 10 TTCTGG 5
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RESULT 120
AX628263/c
LOCUS AX628263 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5304 from Patent WO02053774.
ACCESSION AX628263
VERSION AX628263.1 GI:28456301
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
AUTHORS Method for determining homeostasis of the skin
TITLE Patent: WO 02053774-A 5304 11-JUL-2002;
JOURNAL Henkel Kommanditgesellschaft auf Aktien (DE)
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Db 6 CCCAAC 1
RESULT 121
AR349259/c
LOCUS AR349259 12 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 6 from patent US 6583986.
ACCESSION AR349259
VERSION AR349259.1 GI:33749984
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE
1 (bases 1 to 12)
AUTHORS Storti,W.J., Sibley,K., Ovadia,S., Kimball,S. and Falvo,B.
TITLE Method and apparatus for managing thermal energy emissions
JOURNAL Patent: US 6583986-A 6 24-JUN-2003;
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Best Local Similarity 66.7%; Pred. No. 1.1e+02;
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QY 12 GGGCAGAG 20
Db 12 GAGCCAG 4
RESULT 122
AR349261/c
LOCUS AR349261 12 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 8 from patent US 6583986.
ACCESSION AR349261
VERSION AR349261.1 GI:33749986
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE
1 (bases 1 to 12)
AUTHORS Storti,W.J., Sibley,K., Ovadia,S., Kimball,S. and Falvo,B.
TITLE Method and apparatus for managing thermal energy emissions

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JOURNAL Patent: US 6583986-A 8 24-JUN-2003;
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Db 12 GAGCCAG 4
RESULT 123
AX480947/c
LOCUS AX480947 9 bp DNA linear PAT 12-AUG-2002
DEFINITION Sequence 7 from Patent WO0246412.
ACCESSION AX480947
VERSION AX480947.1 GI:22217586
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 artificial sequences.
AUTHORS Rebar,E., Jamieson,A., Liu,Q., Liu,P.Q., Wolffe,A., Eisenberg,S.P.
and Jarvis,E.
TITLE Regulation of angiogenesis with zinc finger proteins
JOURNAL Patent: WO 0246412-A 7 13-JUN-2002;
Sangamo Biosciences Inc. (US)
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source Location/Qualifiers
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QY 1 CCCCA 4
Db 4 CCCCA 1
RESULT 124
AB012724/c
LOCUS AB012724 9 bp DNA linear PRI 30-JUN-1998
DEFINITION Homo sapiens gene for endothelin-A receptor, cis_element region.
ACCESSION AB012724
VERSION AB012724.1 GI:3273319
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (sites)
AUTHORS Hosoda,K., Nakao,K., Tamura,N., Arai,H., Ogawa,Y., Suga,S.,
Nakanishi,S. and Imura,H.
TITLE Organization, structure, chromosomal assignment, and expression of
the gene encoding the human endothelin-A receptor
JOURNAL J. Biol. Chem. 267 (26), 18797-18804 (1992)
MEDLINE 92406798
PUBMED 1326535
REFERENCE
2 (sites)
AUTHORS Yamashita,J., Yoshimasa,T., Arai,H., Hiraoka,J., Takaya,K.,
Miyamoto,Y., Ogawa,Y., Itoh,H. and Nakao,K.
TITLE Identification of cis-elements of the human endothelin-A receptor
gene and inhibition of the gene expression by the decoy strategy
JOURNAL J. Biol. Chem. 273 (26), 15993-15999 (1998)
MEDLINE 98298101

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PUBMED 9632648
REFERENCE 3 (bases 1 to 9)
AUTHORS Yamashita,J., Yoshimasa,T., Arai,H., Itoh,H. and Nakao,K.
TITLE Direct Submission
JOURNAL Submitted (02-APR-1998) Jun Yamashita, Kyoto University Graduate
School of Medicine, Department of Medicine and Clinical Science, 54
Shogoin Kawahara-cho, Sakyo-ku, Kyoto, Kyoto 606, Japan
(E-mail:juny@kuhp.kyoto-u.ac.jp, Tel:81-75-751-3170,
Fax:81-75-771-9452)
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LOCUS BD238992 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238992
VERSION BD238992.1 GI:33048762
KEYWORDS JP 2002534056-A/410.
SOURCE Homo sapiens (human)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 410 15-OCT-2002;
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/410
PD 15-OCT-2002
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
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RESULT 126
BD239512
LOCUS BD239512 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239512
VERSION BD239512.1 GI:33049282
KEYWORDS JP 2002534056-A/930.
SOURCE Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 930 15-OCT-2002;
GENZYME CORP
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OS Homo sapiens (human)
PN JP 2002534056-A/930
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PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/00,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TTCT 10
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RESULT 127
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LOCUS
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A92569
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A92569
A92569.1 GI:6741228
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1 (bases 1 to 10)
Stocklin,E. and Groner,B.
NUCLEIC ACID CONSTRUCT CODING FOR A PROTEIN COMPLEX FROM A STAT
PROTEIN AND A NUCLEAR RECEPTOR AND ITS USE
Patent: WO 9812320-A 10 26-MAR-1998;
STOCKLIN ELISABETH (CH); GRONER BERND (CH)
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AR043677
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AR043677
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Unknown.
Unknown.
1 (bases 1 to 10)
Seidel,H.Martin. and Lamb,I.Peter.
DNA spacer regulatory elements responsive to cytokines and methods
for their use
Patent: US 5814517-A 47 29-SEP-1998;
Location/Qualifiers
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20.0%; Score 4; DB 1; Length 10;
100.0%; Pred. No. 1.4e+02;
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1 CCCA 4
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3 CCCA 6

BD238844
Preparation and use of superior vaccines.
BD238844
BD238844.1 GI:33048614
JP 2002534056-A/262.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 10)

AUTHORS
TITLE
JOURNAL
COMMENT
ROBERTS,B.L. and Shankara,S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 262 15-OCT-2002;
GENZYME CORP
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PN JP 2002534056-A/262
PD 15-OCT-2002
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PI BRUCE L ROBERTS,SRINIVAS SHANKARA
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PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
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/db_xref="taxon:9606"

Query Match
Best Local Similarity
Matches
QY
Db
RESULT 130
BD239019/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
BD239019
Preparation and use of superior vaccines.
BD239019
BD239019.1 GI:33048789
JP 2002534056-A/437.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 10)
Roberts,B.L. and Shankara,S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 437 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/437
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
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19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
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19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N1/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
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Query Match 20.0%; Score 4; DB 1; Length 10;
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Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 GCAG 17
DB 8 GCAG 5

RESULT 131
BD240663
LOCUS BD240663 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240663
VERSION BD240663.1 GI:33050433
KEYWORDS JP 2002534056-A/2081.
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
Roberts, B.L. and Shankara, S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 2081 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/2081
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
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19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,

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PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
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Query Match 20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGG 14
DB 7 TGGG 10

RESULT 132
AX374630/c
LOCUS AX374630 10 bp DNA linear PAT 01-MAR-2002
DEFINITION Sequence 51 from Patent WO0210454.
ACCESSION AX374630
VERSION AX374630.1 GI:19169527
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1
Choi, J.Y., Koshy, B., Kliem, S. and Stephens, J.C.
Haplotypes of the alas2 gene
Patent: WO 0210454-A 51 07-FEB-2002;
Genaisance Pharmaceuticals, Inc. (US)
FEATURES
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/mol_type='unassigned DNA'
/db_xref='taxon:9606'

Query Match 20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCA 4
DB 9 CCCA 6

RESULT 133
AX805907
LOCUS AX805907 10 bp DNA linear PAT 25-NOV-2003
DEFINITION Sequence 53 from Patent WO03060163.
ACCESSION AX805907
VERSION AX805907.1 GI:38522818
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE
1
van Eijk, M.J. and van Schaik, C.
Discrimination and detection of target nucleotide sequences using
mass spectrometry
Patent: WO 03060163-A 53 24-JUL-2003;
Keygene N.V. (NL)
FEATURES
source
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Location/Qualifiers
/mol_type='unassigned DNA'

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/db xref="taxon:32630"
/note="stuffer sequence"

Query Match      20.0%; Score 4; DB 1; Length 10;
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Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGG 14
Db 7 TGGG 10

RESULT 134
AL5662/c
LOCUS      Al5662      10 bp      DNA      linear      PAT 10-FEB-1994
DEFINITION Oligonucleotide.
ACCESSION  Al5662
VERSION    Al5662.1 GI:489794
SOURCE     .
ORGANISM   synthetic construct
            synthetic construct
            artificial sequences.
            1 (bases 1 to 10)
REFERENCE  Verrips,C.T., Ledebouer,A.M., Edens,L., Klok,R. and Maat,J.
AUTHORS    DNA sequences encoding various allelic forms of mature thaumatin,
TITLE      recombinant plasmids comprising said DNA's and a process for their
            preparation, bacterial cultures comprising said recombinant
            plasmide, and method for producing mature thaumatin
JOURNAL    Patent: EP 0054330-A 4 23-JUN-1982;
            UNILEVER NV; UNILEVER PLC
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Query Match      20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 GAAG 20
Db 9 GAAG 6

RESULT 135
BD238780/c
LOCUS      BD238780      10 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD238780
VERSION    BD238780.1 GI:33048550
KEYWORDS   JP 2002534056-A/198.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
            1 (bases 1 to 10)
            Roberts,B.L. and Shankara,S.
AUTHORS    Preparation and use of superior vaccines
TITLE      Patent: JP 2002534056-A 198 15-OCT-2002;
JOURNAL    GENZYME CORP
COMMENT    OS Homo sapiens (human)
            PN JP 2002534056-A/198
            PD 15-OCT-2002
            PF 18-JUN-1999 JP 2000554749
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            19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
            19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
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            19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
            19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090047 PR
            19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
            08-DEC-1998 US 60/111715
            PI BRUCE L ROBERTS,SRINIVAS SHANKARA
            PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
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Query Match      20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TTCT 10
Db 8 TTCT 5

RESULT 136
BD238880/c
LOCUS      BD238880      10 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION  BD238880
VERSION    BD238880.1 GI:33048650
KEYWORDS   JP 2002534056-A/298.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
            1 (bases 1 to 10)
            Roberts,B.L. and Shankara,S.
AUTHORS    Preparation and use of superior vaccines
TITLE      Patent: JP 2002534056-A 298 15-OCT-2002;
JOURNAL    GENZYME CORP
COMMENT    OS Homo sapiens (human)
            PN JP 2002534056-A/298
            PD 15-OCT-2002
            PF 18-JUN-1999 JP 2000554749
            PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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            19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
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            19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090036 PR
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            19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
            19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
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            19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
            08-DEC-1998 US 60/111715
            PI BRUCE L ROBERTS,SRINIVAS SHANKARA
            PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
            C12N1/19,
            G01N37/00,
            PC C12N15/00,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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            PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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            PC C12N15/00,C12N5/00,C12N15/00

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CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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Query Match 20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGG 14
DB 6 TGGG 3

RESULT 137
BD240561
LOCUS BD240561 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240561.1 GI:33050331
VERSION JP 2002534056-A/1979.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1979 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/1979
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/05,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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CC Preparation and use of superior vaccines
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Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 GAAG 20
DB 2 GAAG 5

RESULT 138
I19170
LOCUS I19170 10 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 33 from patent US 5502176.
ACCESSION I19170
VERSION I19170.1 GI:1599525
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 10)
AUTHORS Tenen,D.G., Pahl,H.L. and Burn,T.C.
TITLE Myeloid cell specific promoter
JOURNAL Patent: US 5502176-A 33 26-MAR-1996;
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Location/Qualifiers
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/mol_type="unassigned DNA"

Query Match 20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TTCT 10
DB 3 TTCT 6

RESULT 139
AR303345
LOCUS AR303345 10 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 70 from patent US 6544736.
ACCESSION AR303345
VERSION AR303345.1 GI:31692121
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 10)
AUTHORS Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and
Watahiki,M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 70 08-APR-2003;
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Query Match 20.0%; Score 4; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TTCT 10
DB 3 TTCT 6

RESULT 140
I34822
LOCUS I34822 11 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 15 from patent US 5599673.
ACCESSION I34822
VERSION I34822.1 GI:2087790
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
FEATURES
Unclassified.

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REFERENCE 1 (bases 1 to 11)
AUTHORS Keating,M.T., Curran,M.E. and Wang,Q.
TITLE Long QT syndrome genes
JOURNAL Patent: US 5599673-A 15 04-FEB-1997;
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Query Match
Best Local Similarity 20.0%; Score 4; DB 1; Length 11;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGG 14
Db 7 TGGG 10

RESULT 141
AX470593
LOCUS AX470593 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 170 from Patent WO02053773.
ACCESSION AX470593
VERSION AX470593.1 GI:22205718
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 170 11-JUL-2002;
FEATURES
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Query Match
Best Local Similarity 20.0%; Score 4; DB 1; Length 11;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 AGAA 19
Db 3 AGAA 6

RESULT 142
AX623377
LOCUS AX623377 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 418 from Patent WO02053774.
ACCESSION AX623377
VERSION AX623377.1 GI:28451318
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 418 11-JUL-2002;
FEATURES
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            Location/Qualifiers
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
                /db_xref="taxon:9606"

Query Match
Best Local Similarity 20.0%; Score 4; DB 1; Length 11;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGG 14
Db 7 TGGG 10

RESULT 145
AX627751
LOCUS AX627751 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4792 from Patent WO02053774.

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGG 14
Db 7 TGGG 10

RESULT 143
AX626059/c
LOCUS AX626059 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 3100 from Patent WO02053774.
ACCESSION AX626059
VERSION AX626059.1 GI:28454097
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 3100 11-JUL-2002;
FEATURES
    source
        1. .11
            Location/Qualifiers
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
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Query Match
Best Local Similarity 20.0%; Score 4; DB 1; Length 11;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 AGAA 19
Db 11 AGAA 8

RESULT 144
AX626126
LOCUS AX626126 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 3167 from Patent WO02053774.
ACCESSION AX626126
VERSION AX626126.1 GI:28454164
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 3167 11-JUL-2002;
FEATURES
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            Location/Qualifiers
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
                /db_xref="taxon:9606"

Query Match
Best Local Similarity 20.0%; Score 4; DB 1; Length 11;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGG 14
Db 7 TGGG 10

RESULT 146
AX627751
LOCUS AX627751 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4792 from Patent WO02053774.

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGG 14
Db 7 TGGG 10
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ACCESSION AX627751 GI:28455789
VERSION AX627751.1
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4792 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 20.0%; Score 4; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 AGAA 19
Db 3 AGAA 6

RESULT 146
AX627837/c
LOCUS AX627837 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4878 from Patent WO02053774.
ACCESSION AX627837
VERSION AX627837.1 GI:28455875
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4878 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
1..11
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 20.0%; Score 4; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 AGAA 19
Db 3 AGAA 6

RESULT 147
AX630798
LOCUS AX630798 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7839 from Patent WO02053774.
ACCESSION AX630798
VERSION AX630798.1 GI:28458838
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7839 11-JUL-2002;

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FEATURES
source
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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 20.0%; Score 4; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 AGAA 19
Db 4 AGAA 7

RESULT 148
AR303500/c
LOCUS AR303500 10 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 225 from patent US 6544736.
ACCESSION AR303500
VERSION AR303500.1 GI:31692276
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and
Watabiki,M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 225 08-APR-2003;
FEATURES
source
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Location/Qualifiers
/organism="unknown"
/mol_type="genomic DNA"

Query Match 19.0%; Score 3.8; DB 1; Length 10;
Best Local Similarity 71.4%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 14 GCAGAAG 20
Db 8 GCTCAAG 2

RESULT 149
AX472203
LOCUS AX472203 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 194 from Patent WO02053775.
ACCESSION AX472203
VERSION AX472203.1 GI:22207240
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Hustert,E., Haberl,M. and Wojnowski,L.
TITLE Identification of the genetic determinants of the polymorphic
cyp3a5 expression
JOURNAL Patent: WO 02053775-A 194 11-JUL-2002;
EPIDAURUS BIOTECHNOLOGIE AG (DE)
FEATURES
source
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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 19.0%; Score 3.8; DB 1; Length 11;
Best Local Similarity 71.4%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 14 GCAGAAG 20

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Db      || |||
      4 GCCAAG 10

RESULT 150
AX471682/c
LOCUS   AX471682          11 bp  DNA      linear  PAT 09-AUG-2002
DEFINITION   Sequence 1259 from Patent WO02053773.
ACCESSION   AX471682
VERSION     AX471682.1  GI:22206807
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Hofmann,K., Conradt,M. and Hofmann,K.
TITLE     Method for determining skin stress or skin ageing in vitro
JOURNAL   Patent: WO 02053773-A 1259 11-JUL-2002;
          HENKEL KGAA (DE)
FEATURES   Location/Qualifiers
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               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      16 AGAAG 20
      ||||
Db      9 ATAAG 5

RESULT 151
AX6233509
LOCUS   AX6233509          11 bp  DNA      linear  PAT 21-FEB-2003
DEFINITION   Sequence 550 from Patent WO02053774.
ACCESSION   AX6233509
VERSION     AX6233509.1  GI:28451450
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 550 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
           source
             1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      16 AGAAG 20
      ||||
Db      2 AGGAG 6

RESULT 152
AX625581
LOCUS   AX625581          11 bp  DNA      linear  PAT 21-FEB-2003
DEFINITION   Sequence 2622 from Patent WO02053774.
ACCESSION   AX625581
VERSION     AX625581.1  GI:28453522
KEYWORDS

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SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 2622 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
           source
             1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      16 AGAAG 20
      ||||
Db      2 AAAAG 6

RESULT 153
AX628191/c
LOCUS   AX628191          11 bp  DNA      linear  PAT 21-FEB-2003
DEFINITION   Sequence 5232 from Patent WO02053774.
ACCESSION   AX628191
VERSION     AX628191.1  GI:28456229
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 5232 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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             1..11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      16 AGAAG 20
      ||||
Db      9 ATAAG 5

RESULT 154
AX630930
LOCUS   AX630930          11 bp  DNA      linear  PAT 21-FEB-2003
DEFINITION   Sequence 7971 from Patent WO02053774.
ACCESSION   AX630930
VERSION     AX630930.1  GI:28458972
KEYWORDS
SOURCE
ORGANISM   Homo sapiens (human)
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Petersohn,D., Conradt,M. and Hofmann,K.
TITLE     Method for determining homeostasis of the skin
JOURNAL   Patent: WO 02053774-A 7971 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 1.4e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      16 AGAAG 20
      |||
Db      2 AGGAG 6

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Job time : 0.001 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 16, 2004, 17:25:19 ; Search time 0.001 Seconds
(without alignments)
21.600 Million cell updates/sec

Title: us-10-024-369-47

Perfect score: 20

Sequence: 1 cccacctcttggcgagaag 20

Scoring table: IDENTITY

Gapop 10.0 , Gapext 0.5

Searched: 57 seqs, 540 residues

Total number of hits satisfying chosen parameters: 114

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 43 summaries

Database : rndb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	9	45.0	11	1	US-09-862-847-15
2	9	45.0	12	1	US-09-862-844-6
3	9	45.0	12	1	US-09-862-844-8
C 4	8	40.0	9	1	US-09-989-789-2078
C 5	8	40.0	9	1	US-09-989-789-2079
C 6	8	40.0	9	1	US-09-989-789-2262
C 7	8	40.0	9	1	US-09-989-789-2263
C 8	8	40.0	10	1	US-08-410-779B-47
C 9	8	40.0	10	1	US-08-410-779B-47
C 10	8	40.0	10	1	US-08-049-283A-31
C 11	8	40.0	10	1	US-08-049-283A-31
C 12	8	40.0	10	1	US-09-508-753B-70
C 13	7	35.0	8	1	US-08-593-345B-19
C 14	7	35.0	8	1	US-08-859-954-55
C 15	7	35.0	8	1	US-08-859-954-248
C 16	7	35.0	8	1	US-08-859-954-249
C 17	7	35.0	8	1	US-08-859-954-267
C 18	7	35.0	8	1	US-08-859-954-406
C 19	7	35.0	8	1	US-08-859-954-540
C 20	7	35.0	8	1	US-08-855-372B-6
C 21	7	35.0	8	1	US-09-498-851-6
C 22	7	35.0	9	1	US-08-068-945A-36
C 23	7	35.0	9	1	US-08-442-806-36
C 24	7	35.0	9	1	US-09-063-450-10
C 25	7	35.0	9	1	US-09-989-789-481
C 26	7	35.0	9	1	US-09-989-789-482
C 27	7	35.0	9	1	US-09-989-789-491
C 28	7	35.0	9	1	US-09-989-789-492
C 29	7	35.0	9	1	US-09-989-789-495
C 30	7	35.0	9	1	US-09-989-789-496
C 31	7	35.0	9	1	US-09-989-789-497
C 32	7	35.0	9	1	US-09-989-789-498
C 33	7	35.0	9	1	US-09-989-789-499

34 7 35.0 9 1 US-09-989-789-577 Sequence 577, App
35 7 35.0 9 1 US-09-989-789-581 Sequence 581, App
36 7 35.0 9 1 US-09-989-789-2179 Sequence 2179, App
37 7 35.0 9 1 US-09-989-789-2180 Sequence 2180, App
C 38 7 35.0 9 1 US-09-989-789-2233 Sequence 2233, App
C 39 7 35.0 9 1 US-09-989-789-2234 Sequence 2234, App
C 40 7 35.0 9 1 US-09-989-789-2235 Sequence 2235, App
C 41 7 35.0 9 1 US-09-989-789-2264 Sequence 2264, App
C 42 7 35.0 9 1 US-09-989-789-2355 Sequence 2355, App
43 7 35.0 9 1 US-09-989-789-2358 Sequence 2358, App

ALIGNMENTS

RESULT 1

US-09-862-847-15
; Sequence 15, Application US/09862847
; Patent No. 6593111
; GENERAL INFORMATION:
; APPLICANT: Baric, Ralph S.
; APPLICANT: Boyd, Yount
; TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
; FILE REFERENCE: 5470.270
; CURRENT APPLICATION NUMBER: US/09/862,847
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/206,537
; PRIOR FILING DATE: 2000-05-21
; PRIOR APPLICATION NUMBER: US 60/285,320
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
QY 5 CCTCTTGG 13
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Db 2 CCTCTTGG 10

RESULT 2

US-09-862-844-6
; Sequence 6, Application US/09862844
; Patent No. 6583986
; GENERAL INFORMATION:
; APPLICANT: Cai, Hong
; APPLICANT: Keller, Richard
; APPLICANT: Werner, James
; APPLICANT: Goodwin, Peter
; TITLE OF INVENTION: RAPID HAPLOTYPE BY SINGLE MOLECULE DETECTION
; FILE REFERENCE: S-94,652
; CURRENT APPLICATION NUMBER: US/09/862,844
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 12
; TYPE: DNA
; ORGANISM: PNA probe MLLCY5P
US-09-862-844-6

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Best Local Similarity 100.0%; Pred. No. 1.9; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

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Qy 7 TTCTTGGGC 15
Db 2 TTCTTGGGC 10

RESULT 3
US-09-862-844-8
; Sequence 8, Application US/09862844
; Patent No. 6583986
; GENERAL INFORMATION:
; APPLICANT: Cai, Hong
; APPLICANT: Keller, Richard
; APPLICANT: Werner, James
; APPLICANT: Goodwin, Peter
; TITLE OF INVENTION: RAPID HAPLOTYPE BY SINGLE MOLECULE DETECTION
; FILE REFERENCE: S-94,652
; CURRENT APPLICATION NUMBER: US/09/862,844
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 12
; TYPE: DNA
; ORGANISM: LNA probe MLLCy5L
US-09-862-844-8

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TTCTTGGGC 15
Db 2 TTCTTGGGC 10

RESULT 4
US-09-989-789-2078/c
; Sequence 2078, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2078
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2078

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTT 8
Db 8 CCCACCTT 1

RESULT 5
US-09-989-789-2079/c
; Sequence 2079, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2079
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2079

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTT 8
Db 8 CCCACCTT 1

RESULT 6
US-09-989-789-2262/c
; Sequence 2262, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2262
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2262

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CACCTTCT 10
Db 9 CACCTTCT 2

RESULT 7
US-09-989-789-2263/c
; Sequence 2263, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2263
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2263
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;
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2263

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCT 10
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Db 9 CACCTTCT 2

RESULT 8
US-08-410-779B-47/c
; Sequence 47, Application US/08410779B
; Patent No. 5814517
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, I. PETER
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS
; TITLE OF INVENTION: RESPONSIVE TO CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 166
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LIGAND PHARMACEUTICALS INCORPORATED
; STREET: 9393 TOWNE CENTRE DRIVE
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: US
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/410,779B
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JURGENSEN, THOMAS E
; REGISTRATION NUMBER: 34,195
; REFERENCE/DOCKET NUMBER: 016-0013A.US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 550-7675
; TELEFAX: (619) 535-3906
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
; SYNTHETIC DNA"
US-08-410-779B-47

Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TTCTTGGG 14
    |||||
Db 10 TTCTTGGG 3

RESULT 9
PCT-US95-04477-47/c
; Sequence 47, Application PC/TUS9504477

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;
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS RESPONSIVE TO
; TITLE OF INVENTION: CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 165
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04477
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
; SYNTHETIC DNA"
PCT-US95-04477-47

Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TTCTTGGG 14
    |||||
Db 10 TTCTTGGG 3

RESULT 10
US-08-049-283A-31/c
; Sequence 31, Application US/08049283A
; Patent No. 5502176
; GENERAL INFORMATION:
; APPLICANT: Tenen, Daniel G.
; APPLICANT: Pahl, Heike L.
; APPLICANT: Burn, Timothy C.
; TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/049,283A
; FILING DATE: 14-APR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/020,465
; FILING DATE: 19-FEB-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/837,776
; FILING DATE: 13-FEB-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.

```

REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: BIH91-03'A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-049-283A-31

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 4.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GGCAGAAG 20
DB 8 GGCAGAAG 1

RESULT 11
US-08-049-283A-33/c
Sequence 33, Application US/08049283A
Patent No. 5502176
GENERAL INFORMATION:
APPLICANT: Tenen, Daniel G.
APPLICANT: Pahl, Heike L.
APPLICANT: Burn, Timothy C.
TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/049,283A
FILING DATE: 14-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/020,465
FILING DATE: 19-FEB-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/837,776
FILING DATE: 13-FEB-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: BIH91-03'A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-049-283A-33

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 4.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGCAGCAA 19
DB 10 GGCAGCAA 3

RESULT 12
US-09-508-753B-70/c
Sequence 70, Application US/09508753B
Patent No. 6544736
GENERAL INFORMATION:
APPLICANT: Akira SHIMAMOTO
APPLICANT: Yasuhiro FURUICHI
APPLICANT: Yuko SHIBATA
APPLICANT: Hiroko FUNAKI
APPLICANT: Eiji OHARA
APPLICANT: Masanori WATAHIKI
TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
FILE REFERENCE: 00162/HG
CURRENT APPLICATION NUMBER: US/09/508,753B
CURRENT FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: JP 9/270324
PRIOR FILING DATE: 1997-09-18
NUMBER OF SEQ ID NOS: 472
SEQ ID NO 70
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-70

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 4.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGCAGCAA 19
DB 10 GGCAGCAA 3

RESULT 13
US-08-593-345B-19/c
Sequence 19, Application US/08593345B
Patent No. 5851772
GENERAL INFORMATION:
APPLICANT: Mirzabekov, Andrei D
APPLICANT: Lysov, Yuriy P
APPLICANT: Shick, Valentine V
APPLICANT: Dubiley, Svetlana A
TITLE OF INVENTION: A Microchip Method for the Enrichment of
TITLE OF INVENTION: Specific DNA Sequences.
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: CHERSKOV & FLAYNIK
STREET: 20 N. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.50 inch, 1.4 MB storage
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh 7.1
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/593,345B
FILING DATE: 29-JAN-96
PRIOR APPLICATION DATA: No. 5851772e
ATTORNEY/AGENT INFORMATION:

NAME: Cherskov, Michael J.
REGISTRATION NUMBER: 33,664
REFERENCE/DOCKET NUMBER: ANL-IN-95-029+30
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 621-1330
TELEFAX: (312) 621-0088
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
TYPE: nucleic acid
STRANDEDNESS: No. 5851772 Applicable
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY: No. 5851772e
LOCATION: 1-8
IDENTIFICATION METHOD: Similarity with known sequences.
OTHER INFORMATION: Complementarity with primer of
OTHER INFORMATION: exons to a-thalassemia gene.
US-08-593-345B-19

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TCTTGGG 14
|||||||
Db 7 TCTTGGG 1

RESULT 14
US-08-859-954-55/c
Sequence 55, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-55
Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 10 TTGGGCA 16
|||||||
Db 8 TTGGGCA 2

RESULT 15
US-08-859-954-248/c
Sequence 248, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 248:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-248

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTC 9
|||||||
Db 7 CACCTTC 1

RESULT 16
US-08-859-954-249/c
; Sequence 249, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 249:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-249
Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CACCTTC 9
Db 7 CACCTTC 1
RESULT 17
US-08-859-954-267/c
; Sequence 267, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston

STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 267:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-267
Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 CCTTCTT 11
Db 8 CCTTCTT 2
RESULT 18
US-08-859-954-406/c
; Sequence 406, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:

ATTORNEY/AGENT INFORMATION:
 NAME: Paul, Thomas D.
 REGISTRATION NUMBER: 32,714
 REFERENCE/DOCKET NUMBER: D-5900
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 713/651-5325
 TELEFAX: 713/651-5246
 INFORMATION FOR SEQ ID NO: 406:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 8 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: other nucleic acid
 DESCRIPTION: /desc = "oligonucleotide"
 HYPOTHETICAL: YES
 ANTI-SENSE: YES
 US-08-859-954-406

Query Match 35.0%; Score 7; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 54;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 TTGGGCA 16
 Db 8 TTGGGCA 2

RESULT 19
 US-08-859-954-540/c
 Sequence 540, Application US/08859954
 Patent No. 6083695
 GENERAL INFORMATION:
 APPLICANT: Hardin, Susan H.
 APPLICANT: Homayouni, Ramin
 APPLICANT: Hardin, Paul E.
 TITLE OF INVENTION: Design and Optimized Primer Library for
 TITLE OF INVENTION: Gene Sequencing and Method Thereof
 NUMBER OF SEQUENCES: 566
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fulbright & Jaworski L.L.P.
 STREET: 1301 McKinney, Suite 5100
 CITY: Houston
 STATE: Texas
 COUNTRY: U.S.A.
 ZIP: 77010-3095
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/859,954
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/632,782
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Paul, Thomas D.
 REGISTRATION NUMBER: 32,714
 REFERENCE/DOCKET NUMBER: D-5900
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 713/651-5325
 TELEFAX: 713/651-5246
 INFORMATION FOR SEQ ID NO: 540:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 8 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: other nucleic acid
 DESCRIPTION: /desc = "oligonucleotide"

HYPOTHETICAL: YES
 ANTI-SENSE: YES
 US-08-859-954-540

Query Match 35.0%; Score 7; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 54;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CCACCTT 8
 Db 7 CCACCTT 1

RESULT 20
 US-08-855-372B-6/c
 Sequence 6, Application US/08855372B
 Patent No. 6090549
 GENERAL INFORMATION:
 APPLICANT: Mirzabekov, Andrei D
 APPLICANT: Parinov, Sergei V
 APPLICANT: Barsky, Victor E
 APPLICANT: Kirillov, Eugene V
 APPLICANT: Dubiley, Svetlana A
 TITLE OF INVENTION: Use of Continuous/Contiguous Stacking Hybridization as a Diagn
 NUMBER OF SEQUENCES: 89
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CHERSKOV & FLAYNIK
 STREET: 20 N. Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States
 ZIP: 60606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.50 inch, 1.4 MB storage
 COMPUTER: PC
 OPERATING SYSTEM: Microsoft Windows 98
 SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/855,372B
 FILING DATE: 13-MAY-97
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: U.S. 08/587,332
 FILING DATE: 16-JAN-96
 ATTORNEY/AGENT INFORMATION:
 NAME: Cherskov, Michael J.
 REGISTRATION NUMBER: 33,664
 REFERENCE/DOCKET NUMBER: ANL-IN-95-027
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (312) 621-1330
 TELEFAX: (312) 621-0088
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 8 bases
 TYPE: nucleic acid
 STRANDEDNESS: No. 6090549 Applicable
 TOPOLOGY: linear
 MOLECULE TYPE: Genomic DNA
 HYPOTHETICAL: yes
 US-08-855-372B-6

Query Match 35.0%; Score 7; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 54;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGGCG 17
 Db 7 TGGGCG 1

RESULT 21
 US-09-498-851-6/c
 Sequence 6, Application US/09498851
 Patent No. 6440671

```

; GENERAL INFORMATION:
; APPLICANT: Mirzabekov, Andrei D
; APPLICANT: Parinov, Sergei V
; APPLICANT: Barsky, Victor E
; APPLICANT: Kirillov, Eugene V
; APPLICANT: Dubiley, Svetlana A
; TITLE OF INVENTION: Use of Continuous/Contiguous
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHERSKOV & FLAYNIK
; STREET: 20 N. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; COMPUTER: PC
; OPERATING SYSTEM: Microsoft Windows 98
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/498,851
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/855,372
; FILING DATE: 13-MAY-97
; APPLICATION NUMBER: U.S. 08/587,332
; FILING DATE: 16-JAN-96
; ATTORNEY/AGENT INFORMATION:
; NAME: Cherskov, Michael J.
; REGISTRATION NUMBER: 33,664
; REFERENCE/DOCKET NUMBER: ANL-IN-95-027
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 621-1330
; TELEFAX: (312) 621-0088
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 bases
; TYPE: nucleic acid
; STRANDEDNESS: No. 6440671 Applicable
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: Yes
; US-09-498-851-6

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGGCAG 17
Db 7 TGGGCAG 1

RESULT 22
US-08-068-945A-36
; Sequence 36, Application US/08068945A
; Patent No. 5616483
; GENERAL INFORMATION:
; APPLICANT: Bjursell, Gunnar
; APPLICANT: Carlsson, Peter
; APPLICANT: Enerback, Sven
; APPLICANT: Hansson, Lennart
; APPLICANT: Lidberg, Ulf
; APPLICANT: Nilsson, Jeanette
; APPLICANT: Tornell, Jan
; TITLE OF INVENTION: New DNA Sequences
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: White & Case
; STREET: 1155 Avenue of the Americas
; CITY: New York

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TGGGCAG 17
Db 7 TGGGCAG 1

RESULT 23
US-08-442-806-36
; Sequence 36, Application US/08442806
; Patent No. 5716817
; GENERAL INFORMATION:
; APPLICANT: Bjursell, Gunnar
; APPLICANT: Carlsson, Peter
; APPLICANT: Enerback, Sven
; APPLICANT: Hansson, Lennart
; APPLICANT: Lidberg, Ulf
; APPLICANT: Nilsson, Jeanette
; APPLICANT: Tornell, Jan
; TITLE OF INVENTION: Genomic DNA Sequences
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: White & Case
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: United States
; ZIP: 10036-2787
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
```

```

; STATE: New York
; COUNTRY: United States
; ZIP: 10036-2787
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/068,945A
; FILING DATE: 27-MAY-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: SE 9201809-2
; FILING DATE: 11-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: SE 9201826-6
; FILING DATE: 12-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: SE 9202088-2
; FILING DATE: 03-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: SE 9300902-5
; FILING DATE: 19-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Sterner, Richard J.
; REGISTRATION NUMBER: 35,372
; REFERENCE/DOCKET NUMBER: 1103326-052
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 819-8783
; TELEFAX: (212) 354-8113
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-068-945A-36

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TTCTTG 13
Db 2 TTCTTG 8

RESULT 23
US-08-442-806-36
; Sequence 36, Application US/08442806
; Patent No. 5716817
; GENERAL INFORMATION:
; APPLICANT: Bjursell, Gunnar
; APPLICANT: Carlsson, Peter
; APPLICANT: Enerback, Sven
; APPLICANT: Hansson, Lennart
; APPLICANT: Lidberg, Ulf
; APPLICANT: Nilsson, Jeanette
; APPLICANT: Tornell, Jan
; TITLE OF INVENTION: Genomic DNA Sequences
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: White & Case
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: United States
; ZIP: 10036-2787
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,806
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/068,945
FILING DATE: 27-MAY-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201809-2
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201826-6
FILING DATE: 12-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9202088-2
FILING DATE: 03-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9300902-5
FILING DATE: 19-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Steiner, Richard J.
REGISTRATION NUMBER: 35,372
REFERENCE/DOCKET NUMBER: 1103326-052
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)819-9783
TELEFAX: (212)354-8113
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 9, base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-442-806-36

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TTCTTGG 13
Db 2 TTCTTGG 8

RESULT 24
US-09-063-450-10/c
Sequence 10, Application US/09063450
Patent No. 6109776
GENERAL INFORMATION:
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Method and System for Computationally Identifying
FILE OF INVENTION: Clusters Within a Set of Sequences
FILE REFERENCE: 77001.002
CURRENT APPLICATION NUMBER: US/09/063,450
CURRENT FILING DATE: 1998-04-21
NUMBER OF SEQ ID NOS: 38
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 10
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example
OTHER INFORMATION: sequence illustrating a computational methodology
US-09-063-450-10

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CACCTTC 9
Db 9 CACCTTC 3

RESULT 25
US-09-989-789-481/c
Sequence 481, Application US/09989789
Patent No. 6588746
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 481
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
OTHER INFORMATION: DNA
US-09-989-789-481

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CCTTCTT 11
Db 8 CCTTCTT 2

RESULT 26
US-09-989-789-482/c
Sequence 482, Application US/09989789
Patent No. 6588746
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 482
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
OTHER INFORMATION: DNA
US-09-989-789-482

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CCTTCTT 11
Db 8 CCTTCTT 2

RESULT 27
US-09-989-789-491
Sequence 491, Application US/09989789
Patent No. 6588746
GENERAL INFORMATION:

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 491
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-491

```

```

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      14 GCAGAAG 20
      |||||
Db      1 GCAGAAG 7

```

```

RESULT 28
US-09-989-789-492
; Sequence 492, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 492
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-492

```

```

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      14 GCAGAAG 20
      |||||
Db      1 GCAGAAG 7

```

```

RESULT 29
US-09-989-789-495
; Sequence 495, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 495
; LENGTH: 9
; TYPE: DNA

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-495

```

```

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      14 GCAGAAG 20
      |||||
Db      1 GCAGAAG 7

```

```

RESULT 30
US-09-989-789-496
; Sequence 496, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 496
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-496

```

```

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      14 GCAGAAG 20
      |||||
Db      1 GCAGAAG 7

```

```

RESULT 31
US-09-989-789-497
; Sequence 497, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 497
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-497

```

```

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      14 GCAGAAG 20

```

```
Db      1 GCAGAAG 7
|||||
RESULT 32
US-09-989-789-498
; Sequence 498, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 498
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-498

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      14 GCAGAAG 20
Db      1 GCAGAAG 7
|||||
RESULT 33
US-09-989-789-499
; Sequence 499, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 499
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-499

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      14 GCAGAAG 20
Db      1 GCAGAAG 7
|||||
RESULT 34
US-09-989-789-577
; Sequence 577, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 577
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-577

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      14 GCAGAAG 20
Db      1 GCAGAAG 7
|||||
RESULT 35
US-09-989-789-581
; Sequence 581, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 581
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-581

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      14 GCAGAAG 20
Db      1 GCAGAAG 7
|||||
RESULT 36
US-09-989-789-2179
; Sequence 2179, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2179
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2179

Query Match      35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      14 GCAGAAG 20
Db      1 GCAGAAG 7
|||||
```

; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2179

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GGCAGAA 19
|||||
Db 3 GGCAGAA 9

RESULT 37

US-09-989-789-2180
; Sequence 2180, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2180
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2180

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GGCAGAA 19
|||||
Db 3 GGCAGAA 9

RESULT 38

US-09-989-789-2233/c
; Sequence 2233, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2233
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2233

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTC 9
|||||
Db 9 CACCTTC 3

RESULT 39
US-09-989-789-2234/c
; Sequence 2234, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2234
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2234

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTC 9
|||||
Db 9 CACCTTC 3

RESULT 40

US-09-989-789-2235/c
; Sequence 2235, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2235
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2235

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTC 9
|||||
Db 9 CACCTTC 3

RESULT 41

US-09-989-789-2264/c
; Sequence 2264, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2264
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2264

Query Match : 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTC 9
DB 7 CACCTTC 1

RESULT 42
US-09-989-789-2355
; Sequence 2355, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2355
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2355

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGCAG 17
DB 1 TGGGCAG 7

RESULT 43
US-09-989-789-2358
; Sequence 2358, Application US/09989789
; Patent No. 6588746
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2358
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA

US-09-989-789-2358

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGCAG 17
DB 1 TGGGCAG 7

Search completed: July 16, 2004, 17:25:19
Job time : 0.001 secs

This Page Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 15, 2004, 18:05:04 ; Search time 0.001 Seconds
(without alignments)
72.760 Million cell updates/sec

Title: us-10-024-369-47
Perfect score: 20
Sequence: 1 cccacctctctggcagaag 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 169 seqs, 1819 residues

Total number of hits satisfying chosen parameters: 338

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 2000 summaries

Database : rngdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	ID	Description
1	20	100.0	20	Human ABC transpor
2	12	60.0	15	Human IL-2 probe S
C 3	11.8	59.0	15	IGFBP2 oligonucleo
C 4	11.4	57.0	15	IGFBP2 oligonucleo
C 5	11.4	57.0	15	IGFBP2 oligonucleo
C 6	11	55.0	13	IGFBP2 oligonucleo
C 7	11	55.0	13	Oligonucleotide SE
C 8	11	55.0	13	Oligonucleotide SE
C 9	11	55.0	13	Oligonucleotide SE
C 10	10	50.0	10	Metastatic breast
C 11	10	50.0	11	Human skin EST 782
C 12	10	50.0	11	Human skin EST 405
C 13	10	50.0	12	Oligonucleotide pr
C 14	10	50.0	12	Oligonucleotide pr
C 15	10	50.0	13	5' exon-intron Jun
C 16	9.8	49.0	13	Oligonucleotide SE
C 17	9.8	49.0	13	Oligonucleotide SE
C 18	9.8	49.0	13	Oligonucleotide SE
C 19	9.8	49.0	13	Oligonucleotide SE
C 20	9.4	47.0	11	Human CYP3A5 gene
C 21	9.4	47.0	12	Oligonucleotide pr
C 22	9.4	47.0	12	Oligonucleotide pr
C 23	9.4	47.0	12	Oligonucleotide pr
C 24	9.4	47.0	12	Oligonucleotide pr
C 25	9.4	47.0	12	Oligonucleotide pr
C 26	9.4	47.0	12	Oligonucleotide pr
C 27	9.4	47.0	12	Oligonucleotide pr
C 28	9.4	47.0	12	Oligonucleotide pr
C 29	9	45.0	10	Human dendritic ce
C 30	9	45.0	10	Human dendritic ce
C 31	9	45.0	10	Human dendritic ce
C 32	9	45.0	10	Metastatic breast
C 33	9	45.0	10	Yeast NORF gene SA

34	9	45.0	10	1	ABT14287
35	9	45.0	11	1	AAA87795
36	9	45.0	11	1	AAS07926
37	9	45.0	11	1	ABV64418
38	9	45.0	11	1	ABV71839
39	9	45.0	11	1	AAK99270
40	9	45.0	11	1	AAAS21210
C 41	9	45.0	12	1	AB119388
C 42	9	45.0	12	1	AB108577
C 43	9	45.0	12	1	AB125588
C 44	9	45.0	12	1	AB113144
C 45	9	45.0	12	1	AB148769
C 46	9	45.0	12	1	ABH8612
C 47	9	45.0	12	1	AB167143
C 48	9	45.0	12	1	ABH94365
C 49	9	45.0	12	1	ABH96358
C 50	9	45.0	12	1	ABH74429
C 51	9	45.0	12	1	ABH70993
C 52	9	45.0	12	1	ABH8613
C 53	9	45.0	12	1	AB152693
C 54	9	45.0	12	1	AB104068
C 55	9	45.0	12	1	AB110163
C 56	9	45.0	12	1	ABH94363
C 57	9	45.0	12	1	AB173341
C 58	9	45.0	12	1	AAAD25619
C 59	9	45.0	12	1	AAAD25617
C 60	8.4	42.0	10	1	AAAT14161
C 61	8.4	42.0	10	1	AAV56888
C 62	8.4	42.0	10	1	AAZ79653
C 63	8.4	42.0	10	1	AAZ77834
C 64	8.4	42.0	10	1	AAZ78009
C 65	8.4	42.0	10	1	AAZ84938
C 66	8.4	42.0	10	1	AAZ85708
C 67	8.4	42.0	10	1	AAZ81181
C 68	8.4	42.0	10	1	AAZ80869
C 69	8.4	42.0	10	1	AAZ79893
C 70	8.4	42.0	10	1	AAA73656
C 71	8.4	42.0	10	1	AAH63873
C 72	8.4	42.0	10	1	AAAF43792
C 73	8.4	42.0	10	1	AAAF34723
C 74	8.4	42.0	10	1	AAAF38664
C 75	8.4	42.0	10	1	AAAF37520
C 76	8.4	42.0	10	1	AAAF37547
C 77	8.4	42.0	10	1	AAAF40919
C 78	8.4	42.0	10	1	AAAF38830
C 79	8.4	42.0	10	1	AAAF41899
C 80	8.4	42.0	10	1	AAAF40814
C 81	8.4	42.0	10	1	ABL88354
C 82	8.4	42.0	10	1	ABK37010
C 83	8.4	42.0	10	1	ABL39516
C 84	8.4	42.0	10	1	ABL52253
C 85	8.4	42.0	10	1	ABL52252
C 86	8.4	42.0	10	1	ABV78454
C 87	8.4	42.0	10	1	ABV84246
C 88	8.4	42.0	10	1	ABK23703
C 89	8.4	42.0	10	1	ABN84506
C 90	8.4	42.0	10	1	ACA60848
C 91	8.4	42.0	10	1	ABQ72900
C 92	8.4	42.0	10	1	ABK96537
C 93	8.4	42.0	10	1	ACF04526
C 94	8.4	42.0	11	1	AAA16595
C 95	8.4	42.0	11	1	AAA52514
C 96	8.4	42.0	11	1	ABQ87504
C 97	8.4	42.0	11	1	ABQ87500
C 98	8.4	42.0	11	1	ABQ86415
C 99	8.4	42.0	11	1	ABV66344
C 100	8.4	42.0	11	1	ABV62764
C 101	8.4	42.0	11	1	ABV70185
C 102	8.4	42.0	11	1	ABV62651
C 103	8.4	42.0	11	1	ABV67006
C 104	8.4	42.0	11	1	ABV67047
C 105	8.4	42.0	11	1	ABV64836
C 106	8.4	42.0	11	1	ABV67092

Nucleic acid PCR a
Promoter P15B3 tra
Human transcriptio
Human skin EST 220
Human skin EST 962
P15B4 promoter tra
Transmissible gast
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
Oligonucleotide pr
MLL/Cy5L LNA probe
MLL/Cy5P PNA probe
Cytokine responsiv
Regulatory element
Human dendritic ce
Human dendritic ce
Human dendritic ce
Metastatic breast
Metastatic breast
Metastatic breast
Human dendritic ce
Probe #25 for sequ
Human ubiquitously
Yeast NORF gene SA
Yeast NORF gene SA
Yeast NORF gene SA
Yeast NORF gene SA
Yeast NORF gene SA
Yeast NORF gene SA
Yeast NORF gene SA
Human CHRE gene p
Human ALAS2 gene p
Human ETEB primer-
Human PHKG2 prefer
Human PHKG2 prefer
Human transcriptio
Human mitochondria
Transcript tag DNA
Rat smooth muscle
Rat smooth muscle
Human GRM8 gene po
Human PLAU gene, p
Stuffer sequence u
Human MN gene 5' d
Human MN gene intr
Human skin stress/
Human skin stress/
Human skin stress/
Human skin EST 413
Human skin EST 550
Human skin EST 797
Human skin EST 437
Human skin EST 479
Human skin EST 483
Human skin EST 262
Human skin EST 487

107	8.4	42.0	11	1	ABV67518	Human skin EST 530
108	8.4	42.0	11	1	ABV72108	Human skin EST 989
109	8.4	42.0	11	1	ABV62632	Human skin EST 418
110	8.4	42.0	11	1	ABV65381	Human skin EST 316
111	8.4	42.0	11	1	ABV67446	Human skin EST 523
112	8.4	42.0	11	1	ABV66204	Human skin EST 399
113	8.4	42.0	11	1	ABV65314	Human skin EST 310
114	8.4	42.0	11	1	ABV70072	Human skin EST 785
115	8.4	42.0	11	1	ABV69202	Human skin EST 698
116	8.4	42.0	11	1	ABV70053	Human skin EST 783
117	8	40.0	8	1	AAT09397	5'-primer used for
118	8	40.0	8	1	AAT09546	3'-primer used for
119	8	40.0	8	1	AAT09415	5'-primer used for
120	8	40.0	8	1	AAT09568	3'-primer used for
121	8	40.0	9	1	ABQ71965	Zinc finger protei
122	8	40.0	9	1	ABQ71964	Zinc finger protei
123	8	40.0	9	1	ABQ71781	Zinc finger protei
124	8	40.0	9	1	ABQ71780	Zinc finger protei
125	8	40.0	9	1	ACD06034	Human VEGF-targete
126	8	40.0	9	1	ACD19256	Human VEGF-targete
127	8	40.0	9	1	ADA64108	Zinc finger target
128	8	40.0	9	1	ADA64291	Zinc finger target
129	8	40.0	9	1	ADA64292	Zinc finger target
130	8	40.0	9	1	ADA64107	Zinc finger target
131	8	40.0	9	1	AAZ79378	Human dendritic ce
132	8	40.0	10	1	AAZ77868	Human dendritic ce
133	8	40.0	10	1	AAZ78273	Human dendritic ce
134	8	40.0	10	1	AAZ78942	Human dendritic ce
135	8	40.0	10	1	AAZ77770	Human dendritic ce
136	8	40.0	10	1	AAZ77870	Human dendritic ce
137	8	40.0	10	1	AAZ79364	Human dendritic ce
138	8	40.0	10	1	AAZ79551	Human dendritic ce
139	8	40.0	10	1	AAZ83134	Metastatic breast
140	8	40.0	10	1	AAZ81919	Metastatic breast
141	8	40.0	10	1	AAZ84193	Metastatic breast
142	8	40.0	10	1	AAZ82122	Metastatic breast
143	8	40.0	10	1	AAZ83647	Metastatic breast
144	8	40.0	10	1	AAZ83418	Metastatic breast
145	8	40.0	10	1	AAZ82784	Metastatic breast
146	8	40.0	10	1	AAZ85883	Metastatic breast
147	8	40.0	10	1	AAZ86635	Metastatic breast
148	8	40.0	10	1	AAZ81064	Metastatic breast
149	8	40.0	10	1	AAZ83296	Metastatic breast
150	8	40.0	10	1	AAZ84897	Metastatic breast
151	8	40.0	10	1	AAZ81128	Metastatic breast
152	8	40.0	10	1	AAZ83682	Metastatic breast
153	8	40.0	10	1	AAZ83851	Metastatic breast
154	8	40.0	10	1	AAZ79314	Human dendritic ce
155	8	40.0	10	1	AAH64317	Human ubiquitously
156	8	40.0	10	1	AAH63292	Human colon epithe
157	8	40.0	10	1	AAF69638	Human IL4Ralpha ge
158	8	40.0	10	1	AAF35751	Yeast NORF gene SA
159	8	40.0	10	1	AAF39472	Yeast NORF gene SA
160	8	40.0	10	1	AAF39402	Yeast NORF gene SA
161	8	40.0	10	1	AAF41579	Yeast NORF gene SA
162	8	40.0	10	1	AAF43940	Yeast NORF gene SA
163	8	40.0	10	1	AAF34735	Yeast NORF gene SA
164	8	40.0	10	1	AAF34229	Yeast NORF gene SA
165	8	40.0	10	1	AAF37328	Yeast NORF gene SA
166	8	40.0	10	1	ABK24258	Retinaldehyde-bind
167	8	40.0	10	1	ABK23697	Transcript tag DNA
168	8	40.0	10	1	AAZ816818	Human apolipoprote
169	8	40.0	10	1	ADC09948	Optical nucleic ac
170	7	35.0	20	1	AAH62417	Human ABC transpor
171	6.4	32.0	12	1	ABH86112	Oligonucleotide pr
172	6.4	32.0	12	1	ABH86113	Oligonucleotide pr
173	6	30.0	10	1	AAZ79378	Human dendritic ce
174	6	30.0	10	1	AAZ77868	Human dendritic ce
175	6	30.0	10	1	AAZ82122	Metastatic breast
176	6	30.0	10	1	AAZ83647	Metastatic breast
177	6	30.0	10	1	AAZ84897	Metastatic breast
178	6	30.0	10	1	AAH64317	Human ubiquitously
179	6	30.0	11	1	ABV64418	Human skin EST 220

c 180	6	30.0	11	1	ABV71839	Human skin EST 962
c 181	6	30.0	11	1	ABQ87500	Human skin stress/
c 182	6	30.0	11	1	ABV67047	Human skin EST 483
183	5.4	27.0	10	1	AAZ84938	Metastatic breast
184	5.4	27.0	10	1	AAH63873	Human ubiquitously
185	5.4	27.0	10	1	AAF37520	Yeast NORF gene SA
186	5.4	27.0	10	1	ABV84246	Human mitochondria
187	5.4	27.0	10	1	ABK23703	Transcript tag DNA
c 188	5.4	27.0	10	1	AAZ78942	Human dendritic ce
189	5.4	27.0	10	1	AAF34229	Yeast NORF gene SA
190	5.4	27.0	10	1	ABV69202	Human skin EST 698
191	5.4	27.0	12	1	AB108577	Oligonucleotide pr
192	5.4	27.0	12	1	AB113144	Oligonucleotide pr
c 193	5.4	27.0	12	1	ABH96358	Oligonucleotide pr
194	5.4	27.0	13	1	ABC34320	Oligonucleotide SE
c 195	5.4	27.0	13	1	ABC34321	Oligonucleotide SE
196	5.4	27.0	13	1	ABC45614	Oligonucleotide SE
c 197	5.4	27.0	13	1	ABC45615	Oligonucleotide SE
198	5.2	26.0	11	1	ABV66344	Human skin EST 413
c 199	5.2	26.0	11	1	ABV72108	Human skin EST 989
c 200	5.2	26.0	11	1	ABV66204	Human skin EST 299
201	5	25.0	8	1	AAT09397	5'-primer used for
c 202	5	25.0	8	1	AAT09546	3'-primer used for
203	5	25.0	8	1	AAT09415	5'-primer used for
c 204	5	25.0	8	1	AAT09568	3'-primer used for
205	5	25.0	9	1	ABQ71965	Zinc finger protei
206	5	25.0	9	1	ABQ71964	Zinc finger protei
207	5	25.0	9	1	ABQ71781	Zinc finger protei
208	5	25.0	9	1	ABQ71780	Zinc finger protei
209	5	25.0	9	1	ADA64108	Zinc finger target
210	5	25.0	9	1	ADA64291	Zinc finger target
211	5	25.0	9	1	ADA64292	Zinc finger target
212	5	25.0	9	1	ADA64107	Zinc finger target
213	5	25.0	10	1	AAZ81481	Metastatic breast
214	5	25.0	10	1	AAZ78803	Human dendritic ce
215	5	25.0	10	1	AAZ82426	Metastatic breast
216	5	25.0	10	1	AAF42275	Yeast NORF gene SA
c 217	5	25.0	10	1	AAZ80869	Metastatic breast
218	5	25.0	10	1	AAF34723	Yeast NORF gene SA
219	5	25.0	10	1	AAF41899	Yeast NORF gene SA
220	5	25.0	10	1	AAF40814	Yeast NORF gene SA
c 221	5	25.0	10	1	ABQ72900	Human GRM8 gene po
c 222	5	25.0	10	1	AAZ78273	Human dendritic ce
c 223	5	25.0	10	1	AAZ79364	Human dendritic ce
c 224	5	25.0	10	1	AAZ83134	Metastatic breast
225	5	25.0	10	1	AAZ83296	Metastatic breast
c 226	5	25.0	10	1	AAH63292	Human colon epithe
227	5	25.0	10	1	AAF35751	Yeast NORF gene SA
c 228	5	25.0	10	1	AAF39472	Yeast NORF gene SA
c 229	5	25.0	10	1	AAF41579	Yeast NORF gene SA
230	5	25.0	10	1	AAF34735	Yeast NORF gene SA
c 231	5	25.0	10	1	AAF37328	Yeast NORF gene SA
c 232	5	25.0	10	1	ABK23697	Transcript tag DNA
c 233	5	25.0	11	1	ABV70040	Human skin EST 782
c 234	5	25.0	11	1	ABV62619	Human skin EST 405
c 235	5	25.0	11	1	AAZ21210	Transmissible gast
236	5	25.0	11	1	AAZ16595	Human MN gene 5' d
237	5	25.0	11	1	AAZ52514	Human MN gene intr
c 238	5	25.0	11	1	ABV62651	Human skin EST 437
c 239	5	25.0	11	1	ABV70072	Human skin EST 785
c 240	5	25.0	12	1	ABH76170	Oligonucleotide pr
c 241	5	25.0	12	1	AB171877	Oligonucleotide pr
c 242	5	25.0	12	1	ABH91427	Oligonucleotide pr
243	5	25.0	12	1	AB161189	Oligonucleotide pr
244	5	25.0	12	1	ABH8586	Oligonucleotide pr
245	5	25.0	12	1	AB119386	Oligonucleotide pr
246	5	25.0	12	1	AB125588	Oligonucleotide pr
247	5	25.0	12	1	AB167143	Oligonucleotide pr
c 248	5	25.0	12	1	ABH94365	Oligonucleotide pr
c 249	5	25.0	12	1	ABH52693	Oligonucleotide pr
250	5	25.0	12	1	AB140468	Oligonucleotide pr
251	5	25.0	12	1	AB110163	Oligonucleotide pr
c 252	5	25.0	12	1	ABH94363	Oligonucleotide pr

[illegible]

CC encoding ABC transporter (ABCT) major histocompatibility complex (MHC) 1
 CC where the compound specifically hybridises with the nucleic acid molecule
 CC and inhibits expression of ATM or specifically hybridises with at least a
 CC portion of an active site on the nucleic acid molecule. The invention is
 CC useful for inhibiting the expression of ATM in cells or tissues. The
 CC invention is useful for treating an animal with hyperproliferative or
 CC autoimmune disorder. The invention is useful for diagnostics,
 CC therapeutics, prophylaxis, as research reagents and kits, for
 CC distinguishing functions of various members of a biological pathway and
 CC in antisense gene therapy. The invention is also useful prophylactically
 CC e.g., to prevent or delay infection, inflammation or tumour formation.
 CC The present sequence is an antisense oligo targeted to human ABC
 CC transporter MHC I DNA. This sequence is used to illustrate the method of
 CC the invention

XX Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTTCTTGGCAGAG 20
 DB 1 CCCACCTTCTTGGCAGAG 20

RESULT 2

ABA96458
 ID ABA96458 standard; DNA; 15 BP.

XX AC ABA96458;

XX 03-APR-2002 (first entry)

XX Human IL-2 probe SEQ ID NO 2.

XX Human; IL-2; IL-4; probe; ss.

XX Homo sapiens.

XX JP2001286285-A.

XX 16-OCT-2001.

XX 28-APR-2000; 2000JP-00130793.

XX 04-FEB-2000; 2000JP-00028117.

XX (BUNS-) BUNSHI BIOHONONICS KENKYUSHO KK.

XX WPI; 2002-134187/18.

XX Selective separation of live cells expressing a specific gene.

XX Example; Page 9; 65pp; Japanese.

XX The invention relates to selectively separating live cells expressing a
 CC specific gene and involves introducing a labelling agent which can label
 CC a specific mRNA in the cells of a live cell group expressing the mRNA.
 CC The method is used for selectively separating live cells expressing a
 CC specific gene. The present sequence is that of a human IL-2 probe

XX Sequence 15 BP; 1 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 60.0%; Score 12; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 9.5;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTTCTTGGCA 16
 DB 3 CTTCTTGGCA 14

RESULT 3

AAF45929/c
 ID AAF45929 standard; DNA; 15 BP.

XX AC AAF45929;

XX 30-MAR-2001 (first entry)

XX IGFBP2 oligonucleotide #768.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 CC cytototoxic; dermatological; cardiant; virucide; ophthalmological; keloid;
 CC skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 CC IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 CC growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 CC keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 CC hyperneovascular condition; hyperplasia; kidney disease;
 CC neovascular condition of the retina; ss.

XX Homo sapiens.

XX WO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 CC UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 CC inhibits or reduces growth factor mediated cell proliferation and/or
 CC inflammation.

XX Example 6; Page 39; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia

XX Sequence 15 BP; 4 A; 5 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 11;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCCACCTTCTTGGGC 15

DB 15 CGCAGCTTCTTGGGC 1

RESULT 4

AAF45927/c
 ID AAF45927 standard; DNA; 15 BP.

XX

AC AAF45927;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGFBP2 oligonucleotide #766.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU000693.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU000693.
 XX
 PR 21-JUN-1999; 99US-0140345P.
 XX
 PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.
 XX
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 XX
 PS Example 6; Page 39; 20lpp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX
 SQ Sequence 15 BP; 5 A; 4 C; 5 G; 1 T; 0 U; 0 Other;
 Query Match 57.0%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 14;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 3 CACCTTCTTGGGC 15
 || |||||
 Db 15 CAGCTTCTTGGGC 3
 RESULT 5
 AAF45928/c
 ID AAF45928 standard; DNA; 15 BP.
 XX
 AC AAF45928;
 XX
 DT 30-MAR-2001 (first entry)
 XX

DE IGFBP2 oligonucleotide #767.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200078341-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU000693.
 XX
 PD 28-DEC-2000.
 XX
 PF 21-JUN-2000; 2000WO-AU000693.
 XX
 PR 21-JUN-1999; 99US-0140345P.
 XX
 PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 DR WPI; 2001-041421/05.
 XX
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 XX
 PS Example 6; Page 39; 20lpp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX
 SQ Sequence 15 BP; 5 A; 5 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 57.0%; Score 11.4; DB 1; Length 15;
 Best Local Similarity 92.3%; Pred. No. 14;
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 3 CACCTTCTTGGGC 15
 || |||||
 Db 14 CAGCTTCTTGGGC 2
 RESULT 6
 ABC34320/c
 ID ABC34320 standard; DNA; 13 BP.
 XX
 AC ABC34320;
 XX
 DT 20-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 34337 for detecting SNP TSC0010965.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

```

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 34337; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
SQ
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCACCTTCTT 11
Db 13 CCCACCTTCTT 3
RESULT 7
ABC34321
ID ABC34321 standard; DNA; 13 BP.
XX ABC34321;
XX 20-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 34338 for detecting SNP TSC0010965.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.

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XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 34338; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;
SQ
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCACCTTCTT 11
Db 1 CCCACCTTCTT 11
RESULT 8
ABC45614/C
ID ABC45614 standard; DNA; 13 BP.
XX ABC45614;
XX 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 45631 for detecting SNP TSC0013272.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 45631; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

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CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 55.0%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 14;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTTCTT 11
 Db 12 CCCACCTTCTT 2

RESULT 9
 ABC45615
 ID ABC45615 standard; DNA; 13 BP.
 AC
 AC ABC45615;
 XX

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 45632 for detecting SNP TSC0013272.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB0000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.

XX Claim 1; SEQ ID NO 45632; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 55.0%; Score 11; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 14;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTTCTT 11
 Db 2 CCCACCTTCTT 12

RESULT 10

AAZ81481/C
 ID AAZ81481 standard; DNA; 10 BP.

XX AAZ81481;

XX 07-APR-2000 (first entry)

XX Metastatic breast tumour cell upregulated transcript tag #715.

XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW anti-metastatic; vaccine; diagnosis; ss.

XX Homo sapiens.

XX WO9965928-A2.

XX 23-DEC-1999.

XX 18-JUN-1999; 99WO-US013647.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089997P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

XX (GENZ) GENZYME CORP.

XX (ROBE/) ROBERTS B L.

XX (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

XX WPI; 2000-106079/09.

XX Claim 1; Page 77; 219pp; English.

CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy

XX

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SQ Sequence 10 BP; 4 A; 2 C; 3 G; 1 T; 0 U; 0 Other;
  Query Match      50.0%; Score 10; DB 1; Length 10;
  Best Local Similarity 100.0%; Pred. No. 19;
  Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ACCTTCTTGG 13
Db 10 ACCTTCTTGG 1

RESULT 11
ABV70040
ID ABV70040 standard; cDNA; 11 BP.
XX
AC ABV70040;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 7826.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
FN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK ) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Claim 24; Page 249; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
  Query Match      50.0%; Score 10; DB 1; Length 11;
  Best Local Similarity 100.0%; Pred. No. 21;
  Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CCTTCTTGGG 14
Db 1 CCTTCTTGGG 10

RESULT 13
ABH76170
ID ABH76170 standard; DNA; 12 BP.
XX
AC ABH76170;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 276163 for detecting SNP TSC0004105.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.

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XX WO200177384-A2.
 PN 18-OCT-2001.
 PD
 PP 06-APR-2001; 2001WO-IB0000713.
 PR 07-APR-2000; 2000DE-01019173.
 PA (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX Claim 1; SEQ ID NO 276163; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, cardiovascular and metabolic disorders. The
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABG99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX SQ Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABG99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX SQ Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
 Query Match 50.0%; Score 10; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 23;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCTT 11
 DB 1 CCACCTTCTT 10
 RESULT 14
 ABI171877
 ID ABI171877 standard; DNA; 12 BP.
 XX ABI171877;
 AC
 XX 22-FEB-2002 (first entry)
 DT
 XX Oligonucleotide primer SEQ ID NO 371850 for detecting SNP TSC0059032.
 DE
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX WO200177384-A2.
 PN 18-OCT-2001.
 PD
 PP 06-APR-2001; 2001WO-IB0000713.
 PR 07-APR-2000; 2000DE-01019173.
 XX (EPIG-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI

DR WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX Claim 1; SEQ ID NO 371850; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABG99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX SQ Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 XX Query Match 50.0%; Score 10; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 23;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCCACCTTCTT 10
 DB 2 CCCACCTTCTT 11
 RESULT 15
 AAA54180/c
 ID AAA54180 standard; cDNA; 13 BP.
 XX AAA54180;
 AC
 XX 08-FEB-2001 (first entry)
 DT
 XX 5' exon-intron junction of exon 3 of BSMAP.
 DE
 XX Brain specific membrane anchored protein; BSMAP; dopamine; GABA;
 KW receptor; agonist; antagonist; central nervous system; CNS;
 KW brain disease; chromosome 19; CLF-I; depression; dyslexia; dystonia;
 KW eating disorder; epilepsy; migraine; headache; panic disorder;
 KW schizophrenia; obsessive disorder; compulsive disorder;
 KW amyotrophic lateral sclerosis; multiple sclerosis; Alzheimer's disease;
 KW brain tumour; Huntington's disease; Parkinson's disease; stroke; human;
 KW exon; intron; ss.
 XX
 OS Homo sapiens.
 XX WO200055317-A1.
 PN 21-SEP-2000.
 PD
 XX 16-MAR-2000; 2000WO-IB0000360.
 PF
 XX 16-MAR-1999; 99EP-00400636.
 PR
 XX (FABR) FABRE MEDICAMENT SA PIERRE.
 PA
 XX Elson G, Bonnefoy J, Gauchat J;
 PI
 XX WPI; 2000-638200/61.
 DR
 XX Novel nucleic acid encoding Brain-Specific Membrane Anchored Protein
 PT useful for treating central nervous system associated disorders and
 PT diseases.
 XX
 XX Disclosure; Page 13; 45pp; English.
 XX

CC Several receptors (dopamine receptors, the 5-HT family of receptors and
CC GABA receptors) have been shown to be useful targets by agonist and
CC antagonist compounds to treat and/or prevent CNS disorders. Brain
CC receptors in general are attractive candidates for finding new therapies
CC for brain diseases. Human chromosome 19 is a short chromosome with a
CC relatively high GC content which has been found to be involved in CNS
CC functions. The gene for type I cytokine receptor homologue CLF-1 was
CC recently localised to chromosome 19. Unexpectedly seven other exons
CC coding in the reverse orientation located adjacent to the CLF-1 exons
CC have also been found. This new gene was designated brain-specific
CC membrane anchored protein (BSMAP). Antagonistic compounds directed
CC against BSMAP are useful for preparing medicaments for treating and/or
CC preventing central nervous system disorders such as depression, dyslexia,
CC dystonia, eating disorders, epilepsy, migraine, headache, panic disorder,
CC schizophrenia, obsessive and compulsive disorders, amyotrophic lateral
CC sclerosis, multiple sclerosis, Alzheimer's disease, brain tumors,
CC Huntington's disease, Parkinson's disease and stroke
XX
SQ Sequence 13 BP; 3 A; 2 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTTCT 10
Db 10 CCCACCTTCT 1

RESULT 16

ABC48640
ID ABC48640 standard; DNA; 13 BP.

AC ABC48640;

XX 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 48657 for detecting SNP TSC0013839.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

PS Claim 1; SEQ ID NO 48657; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073

CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 3 A; 0 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 29;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 TCTTGGCAGAAG 20

Db 1 TTTTGGTAGAAG 13

RESULT 17

ABC48641/c
ID ABC48641 standard; DNA; 13 BP.

XX AC ABC48641;

XX 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 48658 for detecting SNP TSC0013839.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

PS Claim 1; SEQ ID NO 48658; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 5 A; 5 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 29;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 TCTTGGCAGAAG 20

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.	OS	Homo sapiens.	XX
	XX		XX
	XX	WO200177384-A2.	XX
	XX		XX
	XX	18-OCT-2001.	XX
	XX		XX
	XX	06-APR-2001; 2001WO-IB000713.	XX
	XX		XX
	XX	07-APR-2000; 2000DE-01019173.	XX
	XX		XX
(EPiG-) EPIGENOMICS AG.	XX		XX
	XX		XX
Olek A, Piepenbrock C, Berlin K;	XX		XX
	XX		XX
WPI; 2001-657177/75.	XX		XX
	XX		XX
Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.	XX		XX
	XX		XX
Claim 1; SEQ ID NO 126993; 29pp + Sequence Listing; German.	XX		XX
	XX		XX
This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC000010-ABG9989, ABP00010-ABF9989, ABH0010-ABH9989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences	XX		
	XX		XX
Sequence 13 BP; 3 A; 0 C; 6 G; 4 T; 0 U; 0 Other;	XX		XX
	XX		XX
Query Match 49.0%; Score 9.8; DB 1; Length 13;	XX		XX
Best Local Similarity 84.6%; Pred. No. 29;	XX		XX
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0	XX		XX
	XX		XX
QY 7 TTCTTGGGCGAGAA 19	XX		XX
	XX		XX
DB 1 TTGTTGGGAGAA 13	XX		XX
	XX		XX
RESULT 20	XX		XX
ABK99486/c	XX		XX
ID ABK99486 standard; DNA; 11 BP.	XX		XX
	XX		XX
AC ABK99486;	XX		XX
	XX		XX
DT 21-OCT-2002 (first entry)	XX		XX
	XX		XX
DE Human CYP3A5 gene polymorphic reference DNA sequence #56.	XX		XX
	XX		XX
Human; CYP3A5; polymorphism; cancer; cardiovascular disease; diabetes; AIDS; African American; forensic marker; pharmacological; cytostatic; antidiabetic; anti-HIV; gene therapy; ds.	XX		XX
	XX		XX
Homo sapiens.	XX		XX
	XX		XX
WO200253775-A2.	XX		XX
	XX		XX
11-JUL-2002.	XX		XX
	XX		XX
21-DEC-2001; 2001WO-EP015290.	XX		XX
	XX		XX
28-DEC-2000; 2000EP-00128627.	XX		XX

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PR 28-DEC-2000; 2000US-0258684P.
PR 29-DEC-2000; 2000US-0258952P.
PR 16-JAN-2001; 2001EP-00100172.
PR 18-JAN-2001; 2001US-0262859P.
PR 18-AUG-2001; 2001EP-00118884.
PR 16-AUG-2001; 2001US-0312825P.
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Wojnowski L, Haberl M, Husterst E;
XX
DR WPI; 2002-583628/62.
XX
PT Novel CYP3A5 polynucleotide useful for diagnosis and treatment of cancer,
PT cardiovascular diseases, diabetes and AIDS, and for identifying
PT polymorphisms.
XX
XX Example 2; Page 53; 138pp; English.
XX
CC The present invention relates to a new CYP3A5 polynucleotide encoding a
CC polypeptide, where the polynucleotide is capable of hybridising to a
CC CYP3A5 gene. The invention is useful in an in vitro method for
CC identifying a polymorphism. The invention is also useful for useful for
CC diagnosing a disorder related to the presence of a molecular variant of a
CC CYP3A5 or susceptibility to such a disorder, where the disorder is
CC cancer, or diseases including cardiovascular diseases, diabetes and AIDS.
CC The invention can further be used for the preparation of a diagnostic
CC composition for diagnosing a disease in a subject having a genome
CC comprising a variant allele of the CYP3A5 gene, where the subject is an
CC African American. The molecules of the invention are as forensic markers
CC and in pharmacological studies. The present nucleic acid sequence
CC represents a human CYP3A5 gene polymorphism reference DNA sequence, as
CC described in the invention
XX
SQ Sequence 11 BP; 4 A; 3 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 30;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TCTTGGGCAGA 18
Db 11 TCTTTGGCAGA 1

RESULT 21
AB113302
ID AB113302 standard; DNA; 12 BP.
XX
AC AB113302;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 313275 for detecting SNP TSC0025624.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
WO200177384-A2.
XX
18-OCT-2001.
XX
06-APR-2001; 2001WO-IB000713.
XX
07-APR-2000; 2000DE-01019173.
XX
(EPIG-) EPIGENOMICS AG.
PI Olek A, Piepenbrock C, Berlin K;
XX

PR 28-DEC-2000; 2000US-0258684P.
PR 29-DEC-2000; 2000US-0258952P.
PR 16-JAN-2001; 2001EP-00100172.
PR 18-JAN-2001; 2001US-0262859P.
PR 18-AUG-2001; 2001EP-00118884.
PR 16-AUG-2001; 2001US-0312825P.
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Wojnowski L, Haberl M, Husterst E;
XX
DR WPI; 2002-583628/62.
XX
PT Novel CYP3A5 polynucleotide useful for diagnosis and treatment of cancer,
PT cardiovascular diseases, diabetes and AIDS, and for identifying
PT polymorphisms.
XX
XX Example 2; Page 53; 138pp; English.
XX
CC The present invention relates to a new CYP3A5 polynucleotide encoding a
CC polypeptide, where the polynucleotide is capable of hybridising to a
CC CYP3A5 gene. The invention is useful in an in vitro method for
CC identifying a polymorphism. The invention is also useful for useful for
CC diagnosing a disorder related to the presence of a molecular variant of a
CC CYP3A5 or susceptibility to such a disorder, where the disorder is
CC cancer, or diseases including cardiovascular diseases, diabetes and AIDS.
CC The invention can further be used for the preparation of a diagnostic
CC composition for diagnosing a disease in a subject having a genome
CC comprising a variant allele of the CYP3A5 gene, where the subject is an
CC African American. The molecules of the invention are as forensic markers
CC and in pharmacological studies. The present nucleic acid sequence
CC represents a human CYP3A5 gene polymorphism reference DNA sequence, as
CC described in the invention
XX
SQ Sequence 11 BP; 4 A; 3 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 30;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TCTTGGGCAGA 18
Db 11 TCTTTGGCAGA 1

RESULT 21
AB113302
ID AB113302 standard; DNA; 12 BP.
XX
AC AB113302;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 313275 for detecting SNP TSC0025624.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
WO200177384-A2.
XX
18-OCT-2001.
XX
06-APR-2001; 2001WO-IB000713.
XX
07-APR-2000; 2000DE-01019173.
XX
(EPIG-) EPIGENOMICS AG.
PI Olek A, Piepenbrock C, Berlin K;
XX

WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single-nucleotide polymorphisms and cytosine
methylation status.
Claim 1; SEQ ID NO 313275; 29pp + Sequence Listing; German.
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation. ABC00010
-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
represent the oligomers described in the invention. NOTE: The sequence
data for this patent did not form part of the printed specification, but
was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCTT 11
Db 1 CCCACCTTCAT 11

RESULT 22
AB147015/C
ID AB147015 standard; DNA; 12 BP.
XX
AC AB147015;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 346988 for detecting SNP TSC0044863.
XX
SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
WO200177384-A2.
XX
18-OCT-2001.
XX
06-APR-2001; 2001WO-IB000713.
XX
07-APR-2000; 2000DE-01019173.
XX
(EPIG-) EPIGENOMICS AG.
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single-nucleotide polymorphisms and cytosine
methylation status.
Claim 1; SEQ ID NO 346988; 29pp + Sequence Listing; German.
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,

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CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 12 BP; 4 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCTT 11
Db 12 CCCACCTTCTT 2

RESULT 23
ABI45565/c
ID ABI45565 standard; DNA; 12 BP.
XX AC ABI45565;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide primer SEQ ID NO 345538 for detecting SNP TSC0044079.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX Claim 1; SEQ ID NO 345538; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 12 BP; 4 A; 0 C; 8 G; 1 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCTT 11
Db 12 CCCACCTTCTT 2

RESULT 24
ABI69022/c
ID ABI69022 standard; DNA; 12 BP.
XX AC ABI69022;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide primer SEQ ID NO 368995 for detecting SNP TSC0057391.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX Claim 1; SEQ ID NO 368995; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 12 BP; 3 A; 0 C; 7 G; 2 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCTT 11
Db 12 CCCACCTTCTT 2

RESULT 25
ABH91427
ID ABH91427 standard; DNA; 12 BP.
XX AC ABH91427;
XX DT 22-FEB-2002 (first entry)

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XX DE Oligonucleotide primer SEQ ID NO 291420 for detecting SNP TSC0014786.
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX XX
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 291420; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX XX
XX SQ Sequence 12 BP; 1 A; 5 C; 0 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 47.0%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 33;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1 CCCACCTTCTT 11
XX ||| |||||
XX 1 CCTACCTTCTT 11
XX
XX RESULT 26
XX ABI61189/c
XX ID ABI61189 standard; DNA; 12 BP.
XX AC ABI61189;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 361162 for detecting SNP TSC0052480.
XX XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX XX
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX XX
XX PD 18-OCT-2001.
XX XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX XX
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 291420; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX XX
XX SQ Sequence 12 BP; 1 A; 5 C; 0 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 47.0%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 33;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 1 CCCACCTTCTT 11
XX ||| |||||
XX 1 CCTACCTTCTT 11
XX
XX RESULT 26
XX ABI61189/c
XX ID ABI61189 standard; DNA; 12 BP.
XX AC ABI61189;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 361162 for detecting SNP TSC0052480.
XX XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX XX
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX XX
XX PD 18-OCT-2001.
XX XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX XX
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX XX
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PF 06-APR-2001; 2001WO-IB000713.
XX XX
XX PR 07-APR-2000; 2000DE-01019173.
XX XX
XX PA (EPIG-) EPIGENOMICS AG.
XX XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX XX
XX DR WPI; 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 361162; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX XX
XX SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 47.0%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 33;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 10 TTGGCGCAGAAG 20
XX ||| |||||
XX 12 TTGGGTAGAAG 2
XX
XX RESULT 27
XX ABH98731
XX ID ABH98731 standard; DNA; 12 BP.
XX XX
XX AC ABH98731;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 298724 for detecting SNP TSC0018250.
XX XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX XX
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX XX
XX PD 18-OCT-2001.
XX XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX XX
XX PA (EPIG-) EPIGENOMICS AG.
XX XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX XX
XX DR WPI; 2001-657177/75.
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX XX
```


XX Claim 1; SEQ ID NO 298724; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
SQ
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 CCCACCTTCTT 11
Db 1 CCCACCTTCTT 11
RESULT 28
ABH85586/c
ID ABH85586 standard; DNA; 12 BP.
XX
XX AC ABH85586;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 285579 for detecting SNP TSC0012359.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PT
XX
XX Claim 1; SEQ ID NO 285579; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but

CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 5 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
SQ
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 CCCACCTTCTT 11
Db 12 CCCCTCTTCTT 2
RESULT 29
AAZ77982/c
ID AAZ77982 standard; DNA; 10 BP.
XX
XX AC AAZ77982;
XX
XX 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:410.
XX
XX DE
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
OS
XX
XX WO9965924-A2.
XX
XX PD
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
PI
XX

DR WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting

PT cells, useful in gene vaccines against cancer.

PT Claim 1; Page 76; 130pp; English.

XX Sequences AA277573-Z79709 represent SAGE (serial analysis of gene

CC expression) tags used to identify mRNA transcripts encoding

CC immunostimulatory cofactor proteins which are preferentially or

CC differentially expressed in monocyte-derived dendritic cells compared

CC with monocytes. Some of the transcripts correspond to known genes or ESTs

CC (expressed sequence tags) which were previously unknown to be

CC preferentially or differentially expressed in dendritic cells, while

CC other transcripts correspond to novel genes. Antigen-presenting cell

CC (APC)-associated costimulatory factors play an important role in the

CC activation of the cytotoxic immune response, particularly against tumour

CC cells. Tumour antigen presentation via the MHC (major histocompatibility

CC complex) and subsequent recognition by T-cell receptors is alone

CC insufficient to activate a robust cytotoxic immune response that can lyse

CC the tumour cells, immunostimulatory cofactors also being required for

CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid

CC sequences identified using the SAGE tags have several potential uses.

CC They may be used in vaccines to induce an immune response, particularly

CC against a tumour antigen; to modulate the genotype of an APC; to screen

CC for agents that modulate expression of differentially expressed genes in

CC an APC; and as hybridisation probes/amplification primers for the

CC diagnosis, prognosis and monitoring of diseases related to abnormal

CC expression of these genes. Detection of the dendritic cell differentially

CC expressed genes, or of their encoded proteins, can be used to identify

CC cells as belonging to the monocyte lineage. Cells containing these genes

CC can be used in active immunotherapy (or to stimulate production of a

CC population of antigen-specific effector cells) and vectors containing

CC them are used in gene therapy. Co-administration of tumour antigens and

CC APC-associated costimulatory factors ensures adequate antigen

CC presentation to endogenous APCs and upregulates the APCs for the

CC secretion of co-stimulatory signals, migration to T cell-rich sites,

CC recruitment of T cell growth factors and secretion of chemokines for

CC recruitment of immune effector cells

XX Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

SQ

Query Match 45.0%; Score 9; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 33;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTTC 9

Db 9 CCCACCTTC 1

RESULT 30

AA278502/c

ID AA278502 standard; DNA; 10 BP.

XX AA278502;

AC

DT 10-APR-2000 (first entry)

XX Human dendritic cell SAGE tag, SEQ ID NO:930.

DE

DE SAGE tag; serial analysis of gene expression; antigen-presenting cell;

KW APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTL;

KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX Homo sapiens.

OS

XX WO9965924-A2.

PN

XX 23-DEC-1999.

PD

XX 18-JUN-1999; 99WO-US013800.

PF

XX 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089911P.

PR 19-JUN-1998; 98US-0089922P.

PR 19-JUN-1998; 98US-0089933P.

PR 19-JUN-1998; 98US-0089944P.

PR 19-JUN-1998; 98US-0089977P.

PR 19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.

PR 19-JUN-1998; 98US-0090035P.

PR 19-JUN-1998; 98US-0090036P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

PR 19-JUN-1998; 98US-0090042P.

PR 19-JUN-1998; 98US-0090043P.

PR 19-JUN-1998; 98US-0090044P.

PR 19-JUN-1998; 98US-0090045P.

PR 19-JUN-1998; 98US-0090047P.

PR 19-JUN-1998; 98US-0090048P.

PR 19-JUN-1998; 98US-0090072P.

PR 19-JUN-1998; 98US-0090076P.

PR 19-JUN-1998; 98US-0090077P.

PR 19-JUN-1998; 98US-0090078P.

PR 19-JUN-1998; 98US-0090079P.

PR 19-JUN-1998; 98US-0090080P.

PR 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

PI WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting

PT cells, useful in gene vaccines against cancer.

PT Claim 1; Page 92; 130pp; English.

XX Sequences AA277573-Z79709 represent SAGE (serial analysis of gene

CC expression) tags used to identify mRNA transcripts encoding

CC immunostimulatory cofactor proteins which are preferentially or

CC differentially expressed in monocyte-derived dendritic cells compared

CC with monocytes. Some of the transcripts correspond to known genes or ESTs

CC (expressed sequence tags) which were previously unknown to be

CC preferentially or differentially expressed in dendritic cells, while

CC other transcripts correspond to novel genes. Antigen-presenting cell

CC (APC)-associated costimulatory factors play an important role in the

CC activation of the cytotoxic immune response, particularly against tumour

CC cells. Tumour antigen presentation via the MHC (major histocompatibility

CC complex) and subsequent recognition by T-cell receptors is alone

CC insufficient to activate a robust cytotoxic immune response that can lyse

CC the tumour cells, immunostimulatory cofactors also being required for

CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid

CC sequences identified using the SAGE tags have several potential uses.

CC They may be used in vaccines to induce an immune response, particularly

CC against a tumour antigen; to modulate the genotype of an APC; to screen

CC for agents that modulate expression of differentially expressed genes in

CC an APC; and as hybridisation probes/amplification primers for the

CC diagnosis, prognosis and monitoring of diseases related to abnormal

CC expression of these genes. Detection of the dendritic cell differentially

CC expressed genes, or of their encoded proteins, can be used to identify

CC cells as belonging to the monocyte lineage. Cells containing these genes

CC can be used in active immunotherapy (or to stimulate production of a

CC population of antigen-specific effector cells) and vectors containing

CC them are used in gene therapy. Co-administration of tumour antigens and

CC APC-associated costimulatory factors ensures adequate antigen

CC presentation to endogenous APCs and upregulates the APCs for the

CC secretion of co-stimulatory signals, migration to T cell-rich sites,

CC recruitment of T cell growth factors and secretion of chemokines for

CC recruitment of immune effector cells

CC presentation of co-stimulatory signals, migration to T cell-rich sites,
 CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells

SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 33;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TGGGCAGAA 19
 Db 10 TGGGCAGAA 2

RESULT 31

AAZ78803/c
 ID AAZ78803 standard; DNA; 10 BP.

AC AAZ78803;

XX 10-APR-2000 (first entry)

DE Human dendritic cell SAGE tag, SEQ ID NO:1231.

XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX Homo sapiens.

OS

XX WO9965924-A2.

PN 23-DEC-1999.

XX

XX 18-JUN-1999; 99WO-US013800.

PR 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089991P.

PR 19-JUN-1998; 98US-0089992P.

PR 19-JUN-1998; 98US-0089993P.

PR 19-JUN-1998; 98US-0089994P.

PR 19-JUN-1998; 98US-0089997P.

PR 19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.

PR 19-JUN-1998; 98US-0090035P.

PR 19-JUN-1998; 98US-0090036P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

PR 19-JUN-1998; 98US-0090042P.

PR 19-JUN-1998; 98US-0090043P.

PR 19-JUN-1998; 98US-0090044P.

PR 19-JUN-1998; 98US-0090045P.

PR 19-JUN-1998; 98US-0090047P.

PR 19-JUN-1998; 98US-0090048P.

PR 19-JUN-1998; 98US-0090072P.

PR 19-JUN-1998; 98US-0090076P.

PR 19-JUN-1998; 98US-0090077P.

PR 19-JUN-1998; 98US-0090078P.

PR 19-JUN-1998; 98US-0090079P.

PR 19-JUN-1998; 98US-0090080P.

PR 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B.L.

PA (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

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WPI; 2000-106077/09.

Isolated polynucleotides differentially expressed in antigen-presenting cells, useful in gene vaccines against cancer.

Claim 1; Page 100; 130pp; English.

Sequences AAZ77573-279709 represent SAGE (serial analysis of gene expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes in an APC; and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, secretion of T cell growth factors and secretion of chemokines for recruitment of immune effector cells

SQ Sequence 10 BP; 3 A; 0 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 33;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCACCTTCT 10

Db 10 CCACCTTCT 2

RESULT 32

AAZ82426/c

ID AAZ82426 standard; DNA; 10 BP.

XX

AC AAZ82426;

XX

DT 07-APR-2000 (first entry)

XX

DE Metastatic breast tumour cell upregulated transcript tag #1660.

XX

KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;

KW non-metastatic breast tumour tissue; gene therapy; anticancer;

KW antimetastatic; vaccine; diagnosis; ss.

XX

OS Homo sapiens.

XX

PN WO9965928-A2.

XX

PD 23-DEC-1999.

XX

XX 18-JUN-1999; 99WO-US013647.

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XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PA (GENZ ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAW/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX PI WPI; 2000-106079/09.
XX DR
XX DR
XX PT Isolated polynucleotides differentially expressed between metastatic and
XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX PT treatment of cancer.
XX PS Claim 1; Page 103; 219pp; English.
XX CC
XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX CC that are preferentially transcribed in the metastatic breast tumour
XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX CC to AAZ86677 represent tags corresponding to distinct transcripts that are
XX CC preferentially transcribed in the primary or non-metastatic breast tumour
XX CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX CC transcripts can be used for diagnosis, prognosis, monitoring and
XX CC treatment of breast cancer, particularly where metastatic. Diagnosis is
XX CC by standard immunoassays or hybridisation/amplification reactions.
XX CC Compounds that modulate expression of the transcripts are potentially
XX CC useful for treatment of (metastatic) breast cancer, while promoters from
XX CC the transcripts are used to direct expression, in selected cell types, of
XX CC e.g. therapeutic genes (also ribozymes or antisense sequences),
XX CC particularly an antigen-encoding sequence for use in gene or cell-based
XX CC vaccines. Polypeptides encoded by the transcripts are also useful in
XX CC vaccines; for diagnosing breast cancer and for raising specific
XX CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX CC agents. Host cells that produce the polypeptides can be used to expand
XX CC and isolate populations of educated, antigen-specific immune effector
XX CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX CC immunotherapy
XX SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 12 GGCAGAGAAG 20
Db 10 GGCAGAGAAG 2
|||||
RESULT 33
AAAF42275/c
ID AAF42275 standard; DNA; 10 BP.
XX AC AAF42275;
XX DT 23-MAR-2001 (first entry)
XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:9014.
XX KW Yeast: Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
XX KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX KW serial analysis of gene expression; antifungal; tag; identification;
XX KW linker; PCR primer; ds.
XX OS Saccharomyces cerevisiae.
XX PN WO200077214-A2.
XX

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PD 21-DEC-2000.
XX 14-JUN-2000; 2000WO-US016223.
XX 16-JUN-1999; 99US-00335032.
XX (UYJO ) UNIV JOHNS HOPKINS.
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX Example; Page 321; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 ACCTTCTTG 12
Db 10 ACCTTCTTG 2
|||||
RESULT 34
ABT14287
ID ABT14287 standard; DNA; 10 BP.
XX AC ABT14287;
XX DT 20-FEB-2003 (first entry)
XX DE Nucleic acid PCR amplification method-related RAPD PCR primer #57.
XX KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
XX KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA..
XX OS Unidentified.
XX PN WO200281743-A2.

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XX 17-OCT-2002.
 XX 28-MAR-2002; 2002WO-GB001489.
 XX 02-APR-2001; 2001GB-0008182.
 XX (HAMI/) HAMILL B.
 XX Hamill B;
 XX WPI; 2003-075484/07.
 XX Amplification of nucleotide sequences from polynucleotides by chain
 PT extension of oligonucleotide primers, comprises 2 oligonucleotides in
 PT solution, 2 attached to supports and both share complementary sequences.
 XX Disclosure; Fig 17; 60pp; English.
 XX The invention comprises a method for the PCR amplification of nucleic
 CC acids. The method involves a set of primers, where two of the primers are
 CC in solution and at least two other primers are attached to a solid
 CC support. The method of the invention can be used for the analysis of a
 CC nucleic acid or a mixture of nucleic acids, including: single-stranded
 CC DNA molecules, double-stranded DNA molecules and mRNA molecules. The
 CC present DNA sequence represents a random amplified polymorphic DNA (RAPD)
 CC PCR primer of the invention
 XX Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;
 SQ Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 33;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 8 TCTTGGGCA 16
 DB 2 TCTTGGGCA 10
 RESULT 35
 AAA87795
 ID AAA87795 standard; DNA; 11 BP.
 XX AC
 XX AAA87795;
 XX 28-NOV-2000 (first entry)
 XX Promoter P15B3 transcription factor binding site SEQ ID #159.
 DE Human; secreted protein; forensic procedure; gene therapy;
 KW Chromosome mapping; cancer; autoimmune disease; cardiovascular disorder;
 KW cystic fibrosis; hypothyroidism; immunological disorder; amyloidosis;
 KW brain disorder; skeletal muscle disorder; eye disorder; obesity;
 KW mitochondrialopathy; diabetes; atherosclerosis; Alzheimer's disease;
 KW neurodegenerative disorder; graft rejection; dementia; hyperlipidaemia;
 KW septic shock; impotence; promoter; P15B3; ds.
 XX Homo sapiens.
 OS
 XX WO200037491-A2.
 XX 29-JUN-2000.
 XX 20-DEC-1999; 99WO-IB002058.
 XX 22-DEC-1998; 98US-0113686P.
 PR 25-JUN-1999; 99US-0141032P.
 XX (GEST) GENSET.
 PA Bouquelaret L, Dumas J, Duclert A;
 PI WPI; 2000-442637/38.
 DR

XX Polynucleotides and polypeptides encoding proteins with signal peptides,
 PT useful in diagnostic, forensic, gene therapy and chromosome mapping
 PT procedures.
 XX Example 48; Fig 5; 306pp; English.
 XX This sequence represents a transcription factor binding site identified
 CC in the human P15B3 promoter. The invention relates to sequences AAA87725-
 CC A87774 which encode human secreted proteins AAB25763-B25812. The proteins
 CC include signal peptides. The P15B3 promoter is used in the isolation of
 CC the cDNAs of the invention. Included in the invention are a host cell
 CC containing one of the cDNA sequences, and a purified antibody capable of
 CC binding to one of the secreted proteins. Also contained in the invention
 CC are methods for storing the sequence data on a computer system, and a
 CC method for identifying features of the cDNA sequences using a computer
 CC programme. The cDNAs are useful for expressing secreted proteins or
 CC fragments to obtain antibodies capable of specifically binding to the
 CC secreted proteins. The cDNAs may also be useful in diagnostic, forensic,
 CC gene therapy and chromosome mapping procedures and may be used to design
 CC expression vectors and secretion vectors. The proteins of the invention
 CC may be used to treat diseases including cancer, autoimmune diseases,
 CC cardiovascular disorders, cystic fibrosis, hypothyroidism, immunological
 CC disorders, amyloidosis, brain disorders, skeletal muscle disorders, eye
 CC disorders, obesity, mitochondrialopathies, diabetes, atherosclerosis,
 CC neurodegenerative disorders, graft rejection, Alzheimer's disease,
 CC dementia, hyperlipidaemia, septic shock and impotence
 XX Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 SQ Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCCACCTTC 9
 DB 2 CCCACCTTC 10
 RESULT 36
 AAS07926
 ID AAS07926 standard; DNA; 11 BP.
 XX AC
 XX AAS07926;
 XX 23-OCT-2001 (first entry)
 XX Human transcription factor binding site from promoter P15B4 #5.
 DE Human; expressed sequence tag; EST; ds; promoter P15B4;
 KW acute myocardial infarction; acute ischaemic stroke; diabetes; anaemia;
 KW growth hormone deficiency; hepatitis; kidney carcinoma;
 KW multiple sclerosis; chemotherapy-induced neutropaenia;
 KW transcription factor binding site.
 XX Homo sapiens.
 OS
 XX EP1104808-A1.
 XX 06-JUN-2001.
 PD 27-JUL-2000; 2000EP-00202699.
 XX 05-AUG-1999; 99US-0147499P.
 PR (GEST) GENSET.
 PA Dumas Milne Edwards J, Jobert S, Giordano J;
 XX WPI; 2001-357986/38.
 XX New purified 5' expressed sequence tags useful in diagnostic, forensic,
 PT gene therapy or chromosome mapping procedures, or for distinguishing

PT human tissues or cells from non-human tissues or cells.
 XX Example 53; Fig 5; 90pp; English.
 XX
 CC The sequence represents a transcription factor binding site from human
 CC promoter p1594, the promoter and binding site being isolated using
 CC sequence from one of the 5' expressed sequence tags (EST) of the
 CC invention, one of 15442 nucleotide sequences not given in the
 CC specification. The 5' EST may be used to efficiently identify and isolate
 CC 5'untranslated regions (UTRs) and upstream regulatory regions which
 CC control the location, developmental stage, rate and quantity of protein
 CC synthesis, as well as the stability of the mRNA. ESTs containing the 5'
 CC ends of protein genes may include sequences for chromosome mapping and
 CC identification individuals. The EST may further be used to distinguish
 CC human tissues or cells from non-human tissues or cells, to distinguish
 CC between human tissues or cells that do not and do not express
 CC polynucleotides comprising the 5' EST sequences, to obtain and express
 CC cDNA clones which include full protein coding sequences of the
 CC corresponding gene products, to map and clone promoter regions, and open
 CC reading frames from a genomic sequence, and to obtain and express
 CC extended cDNAs encoding portions of the protein. EST-related nucleic
 CC acids are useful in forensic procedures or in diagnosis of genetic
 CC diseases resulting from abnormal gene expression, for constructing a high
 CC resolution map of human chromosomes, and in gene therapy to control or
 CC treat genetic diseases. Proteins expressed from the cDNAs may be used in
 CC treating or controlling a variety of human conditions e.g acute
 CC myocardial infarction, acute ischaemic stroke, diabetes, anaemia, growth
 CC hormone deficiency, hepatitis, kidney carcinoma, multiple sclerosis,
 CC chemotherapy-induced neutropenia
 XX
 SQ Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCCACCTTC 9
 Db 2 CCCACCTTC 10
 |||||
 |||||
 RESULT 37
 ABV64418
 ID ABV64418 standard; cDNA; 11 BP.
 AC
 XX ABV64418;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 2204.
 XX
 KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against

PT e.g. skin cancer.
 XX
 PS Disclosure; Page 86; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma of sarcoma of the
 CC skin. the present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 3 A; 2 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 12 GGGCAGAAG 20
 Db 1 GGGCAGAAG 9
 |||||
 |||||
 RESULT 38
 ABV71839
 ID ABV71839 standard; cDNA; 11 BP.
 XX
 AC ABV71839;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 9625.
 XX
 KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Claim 24; Page 311; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 3 A; 2 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 12 GGGCAGAG 20
 Db 1 GGGCAGAG 9
 RESULT 39
 AAK99270
 ID AAK99270 standard; DNA; 11 BP.
 XX
 AC AAK99270;
 XX
 DT 31-MAY-2002 (first entry)
 XX
 DE P15B4 promoter transcription binding site DELTAEP1_01.
 XX
 KW Promoter DNA; diagnostic; forensic; gene therapy; chromosome mapping;
 KW expression vector; secretion vector; P15B4; transcription binding site;
 KW 86.
 XX Homo sapiens.
 OS
 XX
 PN CA2343602-A1.
 XX
 PD 18-OCT-2001.
 XX
 PF 17-APR-2001; 2001CA-02343602.
 XX
 PR 18-APR-2000; 2000US-0197873P.
 XX
 PA (GEST) GENSET.
 XX
 PI Dumas Milne Edwards JB, Jobert S, Giordano J, Tanaka H, Bejanin S;
 XX WPI; 2002-227459/29.
 DR
 XX New nucleic acid sequences comprising human expressed sequence tags
 PT (ESTs), useful in diagnostic, forensic, gene therapy or chromosome
 PT mapping procedures, or for designing expression vectors and secretion
 PT vectors.
 XX
 PS Disclosure; Fig 5; 163pp; English.
 XX
 CC The invention relates to purified nucleic acids, which comprise sequences
 CC selected from any of more than 50000 sequences not defined in the
 CC specification. The polynucleotide sequences are useful in making cDNA,
 CC polypeptides and promoter DNA, and in diagnostic, forensic, gene therapy
 CC or chromosome mapping procedures. The nucleic acid sequences are also
 CC useful for designing expression vectors and secretion vectors. This
 CC polynucleotide sequence represents a P15B4 promoter transcription binding
 CC site of the invention
 XX
 SQ Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CCCACCTTC 9
 Db 2 CCCACCTTC 10
 RESULT 40

AAS21210
 ID AAS21210 standard; DNA; 11 BP.
 XX
 AC AAS21210;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Transmissible gastroenteritis virus full length clone, C/DE-1 junction.
 XX
 KW Transmissible gastroenteritis virus; TGE; gene transfer;
 KW recombinant viral genome; gene therapy; artificial chromosome; vaccine;
 KW ds.
 XX
 OS Transmissible gastroenteritis virus.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT mutation replace(6,T)
 FT /*tag= a
 FT misc_feature 7..8
 FT /*tag= b
 FT /label= Cleavage site
 FT /note= "Restriction enzyme BglI cleaves at this site
 FT creating a sticky end"
 FT mutation replace(10,A)
 FT /*tag= C
 XX
 PN WO200190340-A2.
 XX
 PD 29-NOV-2001.
 XX
 PF 21-MAY-2001; 2001WO-US016564.
 XX
 PR 21-MAY-2000; 2000US-0206537P.
 PR 20-APR-2001; 2001US-0285320P.
 XX
 PA (UYNC-) UNIV NORTH CAROLINA.
 XX
 PI Baric RS, Yount B;
 XX
 DR WPI; 2002-114288/15.
 XX
 PT Directionally assembling a recombinant viral genome, useful for
 PT manipulating the genomes of plants, animals, bacteria or viruses for gene
 PT therapy, by ligating the subclones of the viral genome to assemble a
 PT recombinant viral genome.
 XX
 PS Example 7; Page 22; 42pp; English.
 XX
 CC The invention describes a method of directionally assembling a
 CC recombinant viral genome comprising ligating the subclones of the viral
 CC genome to assemble a recombinant viral genome, particularly coronavirus.
 CC For directionally assembling a recombinant viral genome. In particular,
 CC the method is useful for manipulating the genomes of higher plants and
 CC animals, as well as bacteria and viruses. In particular, the method is
 CC useful for the precise genetic manipulation of individual chromosomes in
 CC whole plants and animals and the construction of artificial chromosomes
 CC for gene therapy. The genomes produced are useful in preparing vaccines
 CC and expression vectors (e.g., TGE vectors and vaccines), which are useful
 CC in protocols involving vaccination, gene transfer and gene therapy. This
 CC sequence represents the interconnecting junction site C/DE-1 used in the
 CC assembly of the full length transmissible gastroenteritis virus (TGE)
 CC genome described in the method of the invention
 XX
 SQ Sequence 11 BP; 0 A; 4 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CCTTCTGG 13
 Db 2 CCTTCTGG 10

PA (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX Claim 1; SEQ ID NO 325561; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
 XX Query Match 45.0%; Score 9; DB 1; Length 12;
 XX Best Local Similarity 100.0%; Pred. No. 41;
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 3 CACCTTCTT 11
 DB 11 CACCTTCTT 3
 RESULT 44
 ABI13144/c
 ID ABI13144 standard; DNA; 12 BP.
 XX AC ABI13144;
 XX 22-FEB-2002 (first entry)
 XX Oligonucleotide primer SEQ ID NO 313117 for detecting SNP TSC0025502.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX OS Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB000713.
 XX 07-APR-2000; 2000DE-01019173.
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX Claim 1; SEQ ID NO 313117; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
 XX Query Match 45.0%; Score 9; DB 1; Length 12;
 XX Best Local Similarity 100.0%; Pred. No. 41;
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 3 CACCTTCTT 11
 DB 11 CACCTTCTT 3
 RESULT 45
 ABI48769
 ID ABI48769 standard; DNA; 12 BP.
 XX AC ABI48769;
 XX 22-FEB-2002 (first entry)
 XX Oligonucleotide primer SEQ ID NO 348742 for detecting SNP TSC0045724.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX OS Homo sapiens.
 XX WO200177384-A2.
 XX 18-OCT-2001.
 XX 06-APR-2001; 2001WO-IB000713.
 XX 07-APR-2000; 2000DE-01019173.
 XX (EPIG-) EPIGENOMICS AG.
 XX Olek A, Piepenbrock C, Berlin K;
 XX WPI; 2001-657177/75.
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX Claim 1; SEQ ID NO 348742; 29pp + Sequence Listing; German.
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX Sequence 12 BP; 1 A; 7 C; 0 G; 4 T; 0 U; 0 Other;

```

Query Match      45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTTC 9
    |||||
Db 4 CCCACCTTC 12

RESULT 46
ABH8612
ID ABH8612 standard; DNA; 12 BP.
XX
AC ABH8612;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 288605 for detecting SNP TSC0013593.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
DT 18-OCT-2001.
XX
DE 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 288605; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;

Query Match      45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCCTT 11
    |||||
Db 1 CACCTTCCTT 9

RESULT 47
ABI67143/c
ID ABI67143 standard; DNA; 12 BP.
XX
```

```

XX ABI67143;
AC
XX 22-FEB-2002 (first entry)
DT
XX Oligonucleotide primer SEQ ID NO 367116 for detecting SNP TSC0056171.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
DT 18-OCT-2001.
XX
DE 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 367116; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 5 A; 0 C; 4 G; 3 T; 0 U; 0 Other;

Query Match      45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCCTT 11
    |||||
Db 9 CACCTTCCTT 1

RESULT 48
ABH94365
ID ABH94365 standard; DNA; 12 BP.
XX
AC ABH94365;
XX
DT 22-FEB-2002 (first entry)
DT
DE Oligonucleotide primer SEQ ID NO 294358 for detecting SNP TSC0016077.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
```


CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 12 BP; 3 A; 0 C; 7 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTTC 9
 DB 11 CCCACCTTC 3

RESULT 51
 ABH70993/c
 ID ABH70993 standard; DNA; 12 BP.
 XX
 AC ABH70993;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 270970 for detecting SNP TSC0002341.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.

PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 WIPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 270970; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 12 BP; 2 A; 0 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTTC 9
 DB 11 CCCACCTTC 3

RESULT 52
 ABH88613
 ID ABH88613 standard; DNA; 12 BP.
 XX
 AC ABH88613;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 288606 for detecting SNP TSC0013593.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.

PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 WIPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 288606; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 12 BP; 1 A; 6 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCTT 11
 DB 1 CACCTTCTT 9

RESULT 53
 ABI52693
 ID ABI52693 standard; DNA; 12 BP.
 XX
 AC ABI52693;
 XX
 DT 22-FEB-2002 (first entry)
 XX

DE Oligonucleotide primer SEQ ID NO 352666 for detecting SNP TSC0048025.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 352666; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 2 CCACCTTCT 10
 RESULT 54
 ABI40468/c
 ID ABI40468 standard; DNA; 12 BP.
 XX
 AC ABI40468;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 340441 for detecting SNP TSC0041530.
 XX
 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 352666; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 2 CCACCTTCT 10
 RESULT 55
 ABI10163/c
 ID ABI10163 standard; DNA; 12 BP.
 XX
 AC ABI10163;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 310136 for detecting SNP TSC0023830.
 XX
 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 340441; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 3 A; 0 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 9 CCACCTTCT 1
 RESULT 55
 ABI10163/c
 ID ABI10163 standard; DNA; 12 BP.
 XX
 AC ABI10163;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 310136 for detecting SNP TSC0023830.
 XX
 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX

XX 07-APR-2000; 2000DE-01019173.
 PR (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 340441; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 3 A; 0 C; 6 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 9 CCACCTTCT 1
 RESULT 55
 ABI10163/c
 ID ABI10163 standard; DNA; 12 BP.
 XX
 AC ABI10163;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 310136 for detecting SNP TSC0023830.
 XX
 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX Homo sapiens.
 OS
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIG-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX

PS Claim 1; SEQ ID NO 310136; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 3 A; 0 C; 5 G; 4 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 12 CCACCTTCT 4
 RESULT 56
 ABH94363
 ID ABH94363 standard; DNA; 12 BP.
 AC ABH94363;
 XX
 XX 22-FEB-2002 (first entry)
 DE Oligonucleotide primer SEQ ID NO 294356 for detecting SNP TSC0016077.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PD 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 PF (EPIC-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 XX Claim 1; SEQ ID NO 294356; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 4 CCACCTTCT 12
 RESULT 57
 ABI73341/C
 ID ABI73341 standard; DNA; 12 BP.
 XX
 XX AC ABI73341;
 XX
 XX 22-FEB-2002 (first entry)
 DE Oligonucleotide primer SEQ ID NO 373314 for detecting SNP TSC0059971.
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PD 18-OCT-2001.
 XX
 XX 06-APR-2001; 2001WO-IB000713.
 PF (EPIC-) EPIGENOMICS AG.
 XX
 XX Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2001-657177/75.
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 XX Claim 1; SEQ ID NO 373314; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 5 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 41;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTCT 10
 DB 9 CCACCTTCT 1

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RESULT 58
AAD25619
ID AAD25619 standard; DNA; 12 BP.
XX
AC AAD25619;
XX
DT 26-MAR-2002 (first entry)
XX
DE MLCy5L LNA probe used for haplotyping MLL-AF4/98(+) chimeric gene.
XX
KW Haplotyping; single molecule detection; luminescent marker;
XX genetic marker; MLL-AF4/98(+); locked nucleic acid; LNA; probe; ss.
XX
OS Unidentified.
XX
FH Key Location/Qualifiers
FT modified_base 1
FT /*tag= a
FT /mod_base= OTHER
FT /note= "N,N'-biscarboxypentyl-5, 5'-
FT disulfonatoindodicarbocyanine (Cy5) fluorophore labelled
FT thymine; This base is linked to the label via linker"
FT misc_feature 12
FT /*tag= b
FT /note= "This base is attached to a linker sequence"
XX
XX WO200190418-A1.
XX
XX 29-NOV-2001.
XX
XX 22-MAY-2001; 2001WO-US016394.
XX
XX 22-MAY-2000; 2000US-0206512P.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX Cai H, Goodwin PM, Keller RA, Werner JH;
XX
XX WPI; 2002-083123/11.
XX
XX Rapid haplotyping of DNA or RNA segments, comprises labeling at least 2
XX target sites on a segment of DNA or RNA with separate distinguishable
XX luminescent hybridization probes.
XX
XX Example 1; Page 22; 49pp; English.
XX
XX The invention relates to rapid haplotyping a DNA or RNA segment by single
XX molecule detection. The method involves labelling at least 2 target sites
XX on a DNA or RNA segment with separate distinguishable luminescent marker
XX hybridisation probes, where the targets are selected genetic markers and
XX detecting the presence or absence of each luminescent hybridisation probe
XX on each DNA segment to determine the haplotype of each DNA or RNA
XX segment. The method is useful for rapid haplotyping of DNA or RNA
XX segment. The present sequence is a locked nucleic acid (LNA) probe used
XX for haplotyping MLL-AF4/98(+) chimeric gene
XX
XX Sequence 12 BP; 0 A; 3 C; 3 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 41;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TTCTTGGGC 15
DB 2 TTCTTGGGC 10

RESULT 60
AAD25619/c
ID AAT14161 standard; DNA; 10 BP.
XX
XX AAT14161;
XX
XX 29-MAY-1996 (first entry)
XX
XX Cytokine responsive DNA spacer regulatory element.
XX
XX Regulatory element; transcriptional regulatory protein;
XX signalling molecule; DNA spacer; agonist; antagonist; anaemia;
XX gene transcription; inflammation; cytopenia; cancer; ss.
XX
XX Synthetic.

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XX PN WO9528482-A2.
XX PD 26-OCT-1995.
XX PF 10-APR-1995; 95WO-US0004477.
XX PR 14-APR-1994; 94US-00228935.
XX PR 27-MAR-1995; 95US-00410780.
XX PA (LIGA-) LIGAND PHARM INC.
XX PI Seidel HM, Lamb IP;
XX PI WPI; 1995-373797/48.
XX DR DNA spacer regulatory elements responsive to cytokine(s) - for detecting
XX PT the presence of transcriptional regulatory protein in a sample.
XX PS Claim 7; Page 125; 135pp; English.
XX CC The present oligonucleotide comprises a regulatory element TT(Nx)AA,
XX CC where x is 4-7, and the regulatory element binds an activated
XX CC transcriptional regulatory protein in response to a signalling mol., i.e.
XX CC a cytokine. This cytokine responsive DNA spacer regulatory element can be
XX CC used to detect the presence of a transcriptional regulatory protein in a
XX CC sample, and in assays for (ant)agonists of gene transcription. The
XX CC identified cpds. may be used to treat cytokine-induced disease states, or
XX CC to ameliorate disease states caused by cytokine deficiency, e.g.
XX CC inflammation, anaemia, cytopenia and (pre)cancerous conditions
XX SQ Sequence 10 BP; 4 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TTCTTGGGCA 16
DB 10 TTCTTGGGAA 1

RESULT 61
AAV56888/c
ID AAV56888 standard; DNA; 10 BP.
XX AC AAV56888;
XX DT 02-DEC-1998 (first entry)
XX DE Regulatory element containing oligonucleotide #47.
XX KW Cytokine-responsive regulatory; primer; promoter; detection; isolation;
XX KW transcriptional control; STAT protein; screening; agonist; ss.
XX OS Synthetic.
XX PN US5814517-A.
XX XX 29-SEP-1998.
XX PF 27-MAR-1995; 95US-00410779.
XX PR 14-APR-1994; 94US-00228935.
XX PA (LIGA-) LIGAND PHARM INC.
XX PI Lamb IP, Seidel HM;
XX PI WPI; 1998-541763/46.
XX DR DNA constructs containing cytokine-responsive regulatory elements -
XX PT useful in assays for transcription-regulating proteins or gene
XX PT

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PT transcription agonists or antagonists.
XX PS Disclosure; Col 12; 58pp; English.
XX CC AAV56842-V56976 and AAV61601-V61631 are oligonucleotides used in the
XX CC production of constructs comprising a cytokine-responsive regulatory
XX CC element linked to a promoter which is linked to a heterologous coding
XX CC sequence so that the coding sequence is under the transcriptional control
XX CC of the regulatory element and the promoter, where the regulatory element
XX CC has a nucleotide sequence selected from TTCTTGGGAA, TTANYTAA, and TTCTNYTAA
XX CC where N is A, T, C or G, and Y = 3 or 4. The constructs can be used to
XX CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,
XX CC in a sample by contacting the sample with the construct so that the
XX CC protein binds to the regulatory element, and detecting or separating the
XX CC resulting complex. The cells can be used in screening assays for agonists
XX CC of gene transcription, in which the level of expression of the coding
XX CC sequence is measured in the presence and absence of a test compound or in
XX CC the presence of the corresponding cytokine
XX SQ Sequence 10 BP; 4 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TTCTTGGGCA 16
DB 10 TTCTTGGGAA 1

RESULT 62
AAZ79653/c
ID AAZ79653 standard; DNA; 10 BP.
XX AC AAZ79653;
XX DT 10-APR-2000 (first entry)
XX DE Human dendritic cell SAGE tag, SEQ ID NO:2081.
XX KW SAGE tag; serial analysis of gene expression; antigen-presenting cell;
XX KW APC; monocyte-derived dendritic cell; differential gene expression;
XX KW immunostimulatory cofactor; costimulatory factor; CTL;
XX KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX OS Homo sapiens.
XX PN WO9965924-A2.
XX PD 23-DEC-1999.
XX PF 18-JUN-1999; 99WO-US013800.
XX PR 19-JUN-1998; 98US-0089833P.
XX PR 19-JUN-1998; 98US-0089844P.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089878P.
XX PR 19-JUN-1998; 98US-0089919P.
XX PR 19-JUN-1998; 98US-0089932P.
XX PR 19-JUN-1998; 98US-0089933P.
XX PR 19-JUN-1998; 98US-0089934P.
XX PR 19-JUN-1998; 98US-0089937P.
XX PR 19-JUN-1998; 98US-0089939P.
XX PR 19-JUN-1998; 98US-0090000P.
XX PR 19-JUN-1998; 98US-0090035P.
XX PR 19-JUN-1998; 98US-0090036P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PR 19-JUN-1998; 98US-0090042P.
XX PR 19-JUN-1998; 98US-0090043P.
XX PR 19-JUN-1998; 98US-0090044P.
XX PR 19-JUN-1998; 98US-0090045P.

```


CC the tumour cells, immunostimulatory cofactors also being required for
 CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
 CC sequences identified using the SAGE tags have several potential uses.
 CC They may be used in vaccines to induce an immune response, particularly
 CC against a tumour antigen; to modulate the genotype of an APC; to screen
 CC for agents that modulate expression of differentially expressed genes in
 CC an APC; and as hybridisation probes/amplification primers for the
 CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially
 CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes
 CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing
 CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen
 CC presentation to endogenous APCs and upregulates the APCs for the
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,
 CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells
 XX
 SQ Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TTCTTGGGCA 16
 | | | | | | | |
 Db 1 TGGTTGGGCA 10

RESULT 64

AAZ78009

ID AAZ78009 standard; DNA; 10 BP.

XX AAZ78009;

XX AAZ78009;

DT 10-APR-2000 (first entry)

XX Human dendritic cell SAGE tag, SEQ ID NO:437.
 XX
 XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO9965924-A2.
 PN
 XX
 XX 23-DEC-1999.
 PD
 XX
 XX 18-JUN-1999; 99WO-US013800.
 PF
 XX

19-JUN-1998; 98US-0089833P.

19-JUN-1998; 98US-0089844P.

19-JUN-1998; 98US-0089853P.

19-JUN-1998; 98US-0089878P.

19-JUN-1998; 98US-0089911P.

19-JUN-1998; 98US-0089922P.

19-JUN-1998; 98US-0089933P.

19-JUN-1998; 98US-0089944P.

19-JUN-1998; 98US-0089979P.

19-JUN-1998; 98US-0090000P.

19-JUN-1998; 98US-0090035P.

19-JUN-1998; 98US-0090036P.

19-JUN-1998; 98US-0090039P.

19-JUN-1998; 98US-0090040P.

19-JUN-1998; 98US-0090041P.

19-JUN-1998; 98US-0090042P.

19-JUN-1998; 98US-0090043P.

19-JUN-1998; 98US-0090044P.

PR 19-JUN-1998; 98US-0090045P.
 PR 19-JUN-1998; 98US-0090047P.
 PR 19-JUN-1998; 98US-0090048P.
 PR 19-JUN-1998; 98US-0090072P.
 PR 19-JUN-1998; 98US-0090076P.
 PR 19-JUN-1998; 98US-0090077P.
 PR 19-JUN-1998; 98US-0090078P.
 PR 19-JUN-1998; 98US-0090079P.
 PR 19-JUN-1998; 98US-0090080P.
 PR 08-DEC-1998; 98US-0111715P.
 XX

(GENZ) GENZYME CORP.

(ROBE/) ROBERTS B L.

(SHAN/) SHANKARA S.

PI Roberts BL, Shankara S;

XX WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting

XX cells, useful in gene vaccines against cancer.

XX

XX Claim 1; Page 77; 130pp; English.

XX Sequences AAZ77573-279709 represent SAGE (serial analysis of gene

XX expression) tags used to identify mRNA transcripts encoding

XX immunostimulatory cofactor proteins which are preferentially or

XX differentially expressed in monocyte-derived dendritic cells compared

XX with monocytes. Some of the transcripts correspond to known genes or ESTs

XX (expressed sequence tags) which were previously unknown to be

XX preferentially or differentially expressed in dendritic cells, while

XX other transcripts correspond to novel genes. Antigen-presenting cell

XX (APC)-associated costimulatory factors play an important role in the

XX activation of the cytotoxic immune response, particularly against tumour

XX cells. Tumour antigen presentation via the MHC (major histocompatibility

XX complex) and subsequent recognition by T-cell receptors is alone

XX insufficient to activate a robust cytotoxic immune response that can lyse

XX the tumour cells, immunostimulatory cofactors also being required for

XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid

XX sequences identified using the SAGE tags have several potential uses.

XX They may be used in vaccines to induce an immune response, particularly

XX against a tumour antigen; to modulate the genotype of an APC; to screen

XX for agents that modulate expression of differentially expressed genes in

XX an APC; and as hybridisation probes/amplification primers for the

XX diagnosis, prognosis and monitoring of diseases related to abnormal

XX expression of these genes. Detection of the dendritic cell differentially

XX expressed genes, or of their encoded proteins, can be used to identify

XX cells as belonging to the monocyte lineage. Cells containing these genes

XX can be used in active immunotherapy (or to stimulate production of a

XX population of antigen-specific effector cells) and vectors containing

XX them are used in gene therapy. Co-administration of tumour antigens and

XX APC-associated costimulatory factors ensures adequate antigen

XX presentation to endogenous APCs and upregulates the APCs for the

XX presentation of co-stimulatory signals, migration to T cell-rich sites,

XX secretion of T cell growth factors and secretion of chemokines for

XX recruitment of immune effector cells
 XX

SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 47;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCACCTTCTT 11

| | | | | | | |

Db 1 CCACCTGCTT 10

RESULT 65

AAZ84938/c

ID AAZ84938 standard; DNA; 10 BP.

XX

AC AAZ84938;

```

XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell downregulated transcript tag #4172.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX Homo sapiens.
XX WO9965928-A2.
XX 23-DEC-1999.
XX 18-JUN-1999; 99WO-US013647.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089997P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX Claim 1; Page 170; 219pp; English.
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines; for diagnosing breast cancer and for raising specific
XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX agents. Host cells that produce the polypeptides can be used to expand
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 6 CTTCTTGGGC 15
Db 10 CTTCTTGTGC 1
RESULT 66
AAZ85708
ID AAZ85708 standard; DNA; 10 BP.

```

```

XX AAZ85708;
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell downregulated transcript tag #4942.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX Homo sapiens.
XX WO9965928-A2.
XX 23-DEC-1999.
XX 18-JUN-1999; 99WO-US013647.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089997P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX Claim 1; Page 190; 219pp; English.
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX agents. Host cells that produce the polypeptides can be used to expand
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX Sequence 10 BP; 0 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 6 CTTCTTGGGC 15
Db 1 CTGCTTGGGC 10
RESULT 67

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AAZ81181	AAZ81181 standard; DNA; 10 BP.	AAZ80869	AAZ80869 standard; DNA; 10 BP.
XX AC	AAZ81181;	XX AC	AAZ80869;
XX DT	07-APR-2000 (first entry)	XX DT	07-APR-2000 (first entry)
XX XX	Metastatic breast tumour cell upregulated transcript tag #415.	XX DE	Metastatic breast tumour cell upregulated transcript tag #103.
XX DE	Human; metastatic breast tumour tissue; breast cancer; tag; primer;	XX KW	non-metastatic breast tumour tissue; gene therapy; anticancer;
XX KW	antimetastatic; vaccine; diagnosis; ss.	XX KW	antimetastatic; vaccine; diagnosis; ss.
XX OS	Homo sapiens.	XX OS	Homo sapiens.
XX PN	WO9965928-A2.	XX PN	WO9965928-A2.
XX PD	23-DEC-1999.	XX PD	23-DEC-1999.
XX PF	18-JUN-1999; 99WO-US013647.	XX PF	18-JUN-1999; 99WO-US013647.
XX PR	19-JUN-1998; 98US-0089853P.	XX PR	19-JUN-1998; 98US-0089853P.
XX PR	19-JUN-1998; 98US-0089997P.	XX PR	19-JUN-1998; 98US-0089997P.
XX PR	19-JUN-1998; 98US-0090039P.	XX PR	19-JUN-1998; 98US-0090039P.
XX PR	19-JUN-1998; 98US-0090041P.	XX PR	19-JUN-1998; 98US-0090041P.
XX PA	(GENZ) GENZYME CORP.	XX PA	(GENZ) GENZYME CORP.
XX PA	(ROBE/) ROBERTS B L.	XX PA	(ROBE/) ROBERTS B L.
XX PA	(SHAN/) SHANKARA S.	XX PA	(SHAN/) SHANKARA S.
XX PI	Roberts BL, Shankara S;	XX PI	Roberts BL, Shankara S;
XX DR	WPI; 2000-106079/09.	XX DR	WPI; 2000-106079/09.
XX PT	Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer.	XX PT	Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer.
XX PS	Claim 1; Page 69; 219pp; English.	XX PS	Claim 1; Page 61; 219pp; English.
XX CC	AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy	XX CC	AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy
XX SQ	Sequence 10 BP; 1 A; 1 C; 4 G; 4 T; 0 U; 0 Other;	XX SQ	Sequence 10 BP; 0 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
	Query Match 42.0%; Score 8.4; DB 1; Length 10;		Query Match 42.0%; Score 8.4; DB 1; Length 10;
	Best Local Similarity 90.0%; Pred. No. 47;		Best Local Similarity 90.0%; Pred. No. 47;
	Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY	8 TCTTGGGCAG 17	QY	1 CCCACCTTCT 10
Db	1 TTTTGGGCAG 10		

Db 1 CCCCCCTTCT 10

RESULT 69

AAZ79893

ID AAZ79893 standard; DNA; 10 BP.

AC AAZ79893;

DT 10-APR-2000 (first entry)

XX Human dendritic cell preferentially expressed SAGE tag, SEQ ID NO:184.

DE SAGE tag; serial analysis of gene expression; diagnosis;

KW differential gene expression; characterisation; targeted expression;

KW tumour; cancer; immunotherapy; ss.

XX Homo sapiens.

OS

XX WO966303-A2.

PN

XX 23-DEC-1999.

PD

XX 17-JUN-1999; 99WO-US013820.

PF

XX 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089911P.

PR 19-JUN-1998; 98US-0089922P.

PR 19-JUN-1998; 98US-0089933P.

PR 19-JUN-1998; 98US-0089944P.

PR 19-JUN-1998; 98US-0089972P.

PR 19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.

PR 19-JUN-1998; 98US-0090035P.

PR 19-JUN-1998; 98US-0090036P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

PR 19-JUN-1998; 98US-0090042P.

PR 19-JUN-1998; 98US-0090043P.

PR 19-JUN-1998; 98US-0090044P.

PR 19-JUN-1998; 98US-0090045P.

PR 19-JUN-1998; 98US-0090047P.

PR 19-JUN-1998; 98US-0090048P.

PR 19-JUN-1998; 98US-0090072P.

PR 19-JUN-1998; 98US-0090076P.

PR 19-JUN-1998; 98US-0090077P.

PR 19-JUN-1998; 98US-0090078P.

PR 19-JUN-1998; 98US-0090079P.

PR 19-JUN-1998; 98US-0090080P.

PR 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B.L.

PA (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

XX WPI; 2000-106132/09.

XX New polynucleotide useful in cancer immunotherapy.

PT Claim 1; Page 62; 97pp; English.

XX Sequences AAZ79710-279916 represent SAGE (serial analysis of gene expression) tags used to identify mRNA transcripts which are differentially expressed in a variety of normal or malignant cell types. CC Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in that particular cell type, while other

CC transcripts correspond to novel genes. The invention also provides a nucleotide comprising a promoter sequence derived from one of the differentially expressed genes, which may optionally be operably linked to a foreign nucleotide sequence, and gene delivery vehicles and host cells comprising the polynucleotides of the invention. A nucleotide comprising sequences AAZ79710-279916 may be used in diagnostic procedures to characterise a cell of a specific tissue type and to determine whether it is normal or malignant. They may be used to screen for agents that modulate expression of differentially expressed genes compound. The promoter/foreign gene construct of the invention may be used for targeted expression of the foreign gene in a particular cell type. For example, a promoter derived from a gene preferentially expressed in dendritic cells (antigen-presenting cells, or APCs), may be operably linked to a sequence encoding an immunostimulatory molecule and a sequence encoding an antigen. Such a construct could be transduced into APCs and would be useful for inducing an immune response by educating immune effector cells in vivo, or in cancer immunotherapy

XX Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;

SQ

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 47;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TCTTTGGGCA 16

Db 1 TGCTTGGGCA 10

RESULT 70

AAA73656/c

ID AAA73656 standard; DNA; 10 BP.

AC AAA73656;

XX

XX 30-JAN-2001 (first entry)

DT

XX Probe #25 for sequencing by hybridisation.

DE

XX Nucleic acid sequencing; sequencing by hybridisation; SBH; probe; ss.

KW

XX Synthetic.

OS

XX WO200040758-A2.

PN

XX 13-JUL-2000.

PD

XX 06-JAN-2000; 2000WO-US000458.

PF

XX 06-JAN-1999; 99US-0115284P.

PR

XX (HYSE-) HYSEQ INC.

PA

XX Drmanac R, Drmanac S, Kita D, Cooke C, Xu C;

PI

XX WPI; 2000-475839/41.

DR

XX Identifying one or more sequences of a target nucleic acid (NA), useful for parallel analyses, comprises contacting the NA with a set of pools of PT probes comprising mixture of probes with different information regions.

PT

XX Disclosure; Page 53; 196pp; English.

PS

XX The present sequence is a probe used to demonstrate the method of the CC invention, which is concerned with the use of pools of probes to enable CC sequencing by hybridisation, a process known as SBH. Overlapping probes are used which allows the identification of sequences longer than the CC probe length, and either the target nucleic acid or the probe is CC labelled. The method of the invention is useful for assembling sequences CC and in parallel analyses

XX Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

SQ

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 CTTGGGCAGA 18
 |||||
 Db 10 CTTGGGGAGA 1

RESULT 71
 AAH63873/c
 ID AAH63873 standard; cDNA; 10 BP.
 XX
 AC AAH63873;
 XX
 DT 20-SEP-2001 (first entry)
 XX
 DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 713.
 XX
 KW Human; transcriptome; gene expression pattern; cancer; drug screening;
 KW cancer diagnosis; cell specific gene expression; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200138577-A2.
 XX
 PD 31-MAY-2001.
 XX
 PF 21-NOV-2000; 2000WO-US031922.
 XX
 PR 24-NOV-1999; 99US-00448480.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu VE, Vogelstein B, Kinzler KW;
 XX
 DR WPI; 2001-367706/38.
 XX
 PT New isolated polynucleotides, useful for identifying specific cell type,
 PT such as cancer cell, comprises transcriptomes expressed in particular
 PT cell types.
 XX
 PS Claim 13; Page 55; 94pp; English.
 XX
 CC The present invention describes a method of identifying the type of cell
 CC in a sample, involving determining which of the sequences AAH63161-
 CC AAH64724 is expressed by the cell. The transcriptomes described in the
 CC invention are cell-type specific, cancer specific or ubiquitously
 CC expressed in humans. They can also be used to screen for drugs, reduce
 CC cancer specific gene expression, standardise expression and restore the
 CC function of a diseased cell or tissue. The present sequence is one of the
 CC transcriptomes described in the exemplification of the invention
 XX
 SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 CTTCTTGGGC 15
 |||||
 Db 10 CTTCTTGTGC 1

RESULT 72
 AAF43792
 ID AAF43792 standard; DNA; 10 BP.
 XX
 AC AAF43792;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11931.

XX Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 376; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 3 A; 0 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 TTGGGCAGAA 19
 |||||
 Db 1 TTGGGTAGAA 10

RESULT 73
 AAF34723/c
 ID AAF34723 standard; DNA; 10 BP.
 XX
 AC AAF34723;
 XX

```
DT 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1462.
DE
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 52; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention.
XX
XX Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 4 ACCCTCTTGG 13
DB 10 ACCCTCTTAG 1
|||||||
|||||||

RESULT 74
AAF38664/c
ID AAF38664 standard; DNA; 10 BP.
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RESULT 75
AAF37520/c
ID AAF37520 standard; DNA; 10 BP.
XX AC AAF37520;
XX DT 23-MAR-2001 (first entry)
XX XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4259.
XX DE
XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX OS Saccharomyces cerevisiae.
XX PN WO200077214-A2.
XX PD 21-DEC-2000.
XX PF 14-JUN-2000; 2000WO-US016223.
XX PR 16-JUN-1999; 99US-00335032.
XX XX (UYJO) UNIV JOHNS HOPKINS.
XX PA Velculescu V, Vogelstein B, Kinzler K;
XX PI WPI; 2001-061874/07.
XX DR
XX PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX PS Example; Page 152; 419pp; English.
XX XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX SQ Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 8 TCTTCGGCAG 17
|||||

Db 10 TCTTCGGCAG 1
RESULT 76
AAF37547/c
ID AAF37547 standard; DNA; 10 BP.
XX AC AAF37547;
XX DT 23-MAR-2001 (first entry)
XX XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4286.
XX DE
XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX OS Saccharomyces cerevisiae.
XX PN WO200077214-A2.
XX PD 21-DEC-2000.
XX PF 14-JUN-2000; 2000WO-US016223.
XX PR 16-JUN-1999; 99US-00335032.
XX XX (UYJO) UNIV JOHNS HOPKINS.
XX PA Velculescu V, Vogelstein B, Kinzler K;
XX PI WPI; 2001-061874/07.
XX DR
XX PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX PS Example; Page 153; 419pp; English.
XX XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCGGCAGAG 20
Db 10 TGGGCTGAAG 1

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCCACCTTCT 10
Db 1 CCCACCTTAT 10

RESULT 78
AAF38830/c
ID AAF38830 standard; DNA; 10 BP.
XX
AC AAF38830;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5569.
KW Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velulescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 273; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 2 A; 5 C; 0 G; 3 T; 0 U; 0 Other;

XX
SQ Sequence 10 BP; 4 A; 0 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. NO. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 CCACCTTCTT 11
Db 10 CCACATCTT 1

RESULT 79
AAF41899/c
ID AAF41899 standard; DNA; 10 BP.
XX AAF41899;
AC AAF41899;
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8638.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX WO200077214-A2.
FN WO200077214-A2.
XX 21-DEC-2000.
XX 14-JUN-2000; 2000WO-US016223.
XX 16-JUN-1999; 99US-00335032.
XX (UYJO) UNIV JOHNS HOPKINS.
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX Example; Page 308; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064

CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. NO. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 6 CTCTTGGGC 15
Db 10 CTCTTGGTC 1

RESULT 80
AAF40814/c
ID AAF40814 standard; DNA; 10 BP.
XX AAF40814;
AC AAF40814;
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7553.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX WO200077214-A2.
FN WO200077214-A2.
XX 21-DEC-2000.
XX 14-JUN-2000; 2000WO-US016223.
XX 16-JUN-1999; 99US-00335032.
XX (UYJO) UNIV JOHNS HOPKINS.
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX Example; Page 269; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064

expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

Sequence 10 BP; 4 A; 2 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 ACCCTCTTGG 13
 | | | | |
 Db 10 AACTTCTTGG 1

RESULT 81
 ABL88354/C
 ID ABL88354 standard; DNA; 10 BP.
 XX
 AC ABL88354;
 XX
 DT 20-MAY-2002 (first entry)
 DE Human CHRNE gene polymorphism detection primer, SEQ ID NO:88.
 XX
 KW Human; cholinergic receptor nicotinic epsilon polypeptide; CHRNE;
 KW chromosome 17p13-12; acetylcholine receptor; ACHR;
 KW neuromuscular junction; skeletal muscle; postnatal development;
 KW congenital myasthenic syndrome; CMS; haplotyping; genotyping; haplotypes;
 KW genetic variant; single nucleotide polymorphism; SNP; gene therapy;
 KW drug screening; primer extension; primer; ss.

OS Homo sapiens.
 XX
 PN WO200198316-A2.
 XX
 PD 27-DEC-2001.
 XX
 PF 20-JUN-2001; 2001WO-US019835.
 XX
 PR 20-JUN-2000; 2000US-0212870P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Amaro E, Bieglecki KM, Kliem SE, Koshy B, Tanguay DA;
 XX
 DR WPI; 2002-130787/17.
 XX
 PT Novel genetic variants of cholinergic receptor, nicotinic, epsilon polypeptide gene useful in studying expression and function of the protein, and for screening drugs to treat diseases e.g. congenital myasthenic syndrome.

Claim 19; Page 15; 104pp; English.
 PS
 CC The invention relates to a method for haplotyping the cholinergic receptor, nicotinic, epsilon polypeptide (CHRNE) gene (ABU88268) of an individual, and also describes 17 novel polymorphic sites within the human CHRNE gene. The CHRNE gene is located on chromosome 17p13-12 and contains 12 exons which encode a 493 amino acid protein (ABU49112). The CHRNE protein is one of the 5 subunits of mammalian acetylcholine receptors (AChRs) found at neuromuscular junctions in juveniles and adults, and is essential for the normal postnatal development of skeletal muscle. Mutations in the CHRNE gene are associated with congenital myasthenic syndrome (CMS). CHRNE gene sequences can therefore be used in gene therapy. The CHRNE gene is also useful for studying the expression and function of CHRNE, and in expressing CHRNE protein for use in screening for candidate drugs to treat diseases related to CHRNE. The method of the invention is useful for haplotyping the CHRNE gene in an individual, and can also be used in pharmaceutical research to validate

CHRNE as a candidate target for, and in design of clinical trials of candidate drugs for, treating a specific condition drugs or disease predicted to be associated with CHRNE activity such as CMS. Polymorphisms in the target region may be determined by the use of allele-specific oligonucleotides (ASOs; ABL88370-ABL88320) as probes and primers, and by primer extension using oligonucleotide primers comprising sequences ABL88371-ABL88354. The CHRNE protein is useful for improving the efficiency and reliability of several steps in the discovery and development of drugs for treating diseases associated with CHRNE activity, and may be used to screen drugs which target CHRNE. Sequences ABL88321-ABL88354 represent sequences that are specifically claimed as components of primers used to detect polymorphisms in the CHRNE gene by primer extension

Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
 | | | | |
 Db 10 CCCACCTTCT 1

RESULT 82
 ABK37010
 ID ABK37010 standard; DNA; 10 BP.
 XX
 AC ABK37010;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human ALAS2 gene allele-specific oligonucleotide PCR primer #9.
 XX
 KW Human; aminolevulinate delta synthase 2; ALAS2; haplotyping; primer; ss;
 KW haplotype pair; single nucleotide polymorphism; genotyping; aniaemic;
 KW gene therapy; drug screening; X-linked sideroblastic anaemia; sequencing;
 KW hypochromic anaemia; probe; PCR.

OS Homo sapiens.
 XX
 PN WO200210454-A2.
 XX
 PD 07-FEB-2002.
 XX
 PF 30-JUL-2001; 2001WO-US023914.
 XX
 PR 28-JUL-2000; 2000US-0221827P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Choi JY, Koshy B, Kliem S, Stephens JC;
 XX
 DR WPI; 2002-188755/24.

New isolated human aminolevulinate delta synthase 2 polynucleotide, useful for therapeutic purposes, for studying the expression and function of the polynucleotide, and for expressing the aminolevulinate protein.

Claim 18; Page 14; 90pp; English.

The invention relates to single nucleotide polymorphisms in the gene encoding human aminolevulinate delta synthase 2 (ALAS2). A method for haplotyping the ALAS2 gene in an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the ALAS2 haplotypes given in the specification or whether both copies are defined by a haplotype pair. This method is useful in genotyping, whereby all possible haplotype pairs can be assigned to specific genotypes. An association between a trait and a haplotype or haplotype pair of the ALAS2 gene can be identified by comparing the frequency of the haplotype or haplotype pair in a population exhibiting the trait with the frequency of the haplotype

CC or haplotype pair in a reference population, where a higher haplotype
 CC frequency in the trait population indicates the trait is associated with
 CC the haplotype or haplotype pair. ALAS2 and its corresponding DNA are used
 CC for studying the expression and function of ALAS2, for use in screening
 CC for candidate drugs to treat diseases related to ALAS2 activity, such as
 CC X-linked sideroblastic anaemia and hypochromic anaemia. The sequences are
 CC also useful for studying the effect of variation on the biological
 CC activity of ALAS2 as well as on the binding affinity of candidate drugs
 CC targeting ALAS2. Sequences ABK36963-ABK37027 represent allele-specific
 CC oligonucleotide probes, sequencing primers and PCR primers used to detect
 CC ALAS2 gene polymorphisms

XX
 SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 | | | | |
 Db 1 CATCTTGGGC 10

RESULT 83
 ABL39516/c
 ID ABL39516 standard; DNA; 10 BP.
 XX
 AC ABL39516;
 XX
 DT 22-APR-2002 (first entry)
 XX
 DE Human EFTFB primer-extension oligonucleotide 22.
 XX
 KW Human; electron-transfer flavoprotein beta polypeptide; EFTFB;
 KW electron acceptor; mitochondrial matrix; glutaric acidemia type II;
 KW novel polymorphic site; novel polymorphism; EFTFB genotype; ss; GAIL;
 KW EFTFB haplotype; transgenic animal; primer; probe; chromosome 19q13;
 KW primer-extension oligonucleotide; single nucleotide polymorphism; SNP.

OS Homo sapiens.

XX WO200202590-A2.

PN 10-JAN-2002.

PD 05-JUL-2001; 2001WO-US021306.

PF 05-JUL-2000; 2000US-0215984P.

PR (GENA-) GENAISSANCE PHARM INC.

PA Bentivegna SC, Bieglecki KM, Kazemi A, Koshy B;

PI WPI; 2002-154722/20.

DR Novel isolated human electron-transfer-flavoprotein, beta polynucleotide,
 XX useful for therapeutic purposes, for studying the expression and function
 XX of the polynucleotide, and for expressing the flavoprotein.

PS Claim 19; Page 15; 143pp; English.

XX The invention comprises DNA, cDNA and protein sequences of the human
 CC electron-transfer flavoprotein, beta polypeptide (EFTFB) gene (located on
 CC chromosome 19q13.3-13.4). The invention specifically relates to the
 CC identification of 27 novel polymorphic sites within the EFTFB gene.
 CC Electron-transfer flavoprotein (EFT) is an obligatory electron acceptor
 CC for nine primary flavoprotein dehydrogenases and is located in the
 CC mitochondrial matrix. EFT is composed of an alpha (EFTA) and a beta
 CC (EFTB) subunit. Electrons accepted by EFT are transferred to the
 CC mitochondrial respiratory chain by EFT dehydrogenases (EFTDHs).
 CC Deficiency of EFT or EFTDH leads to glutaric acidemia type II (GAIL).
 CC Therefore EFTB is a pharmaceutically-important gene in the treatment of
 CC GAIL. The novel EFTB polymorphisms identified in the invention are useful

CC for genotyping and haplotyping the EFTFB gene of an individual. The EFTB
 CC protein and nucleic acids of the invention are useful for studying the
 CC expression and function of EFTFB in vivo. The EFTB protein and nucleic
 CC acids are also useful for testing the efficacy of therapeutic agents and
 CC compounds for glutaric acidemia type II. The nucleic acids of the
 CC invention are useful in the production of a transgenic animal expressing
 CC the EFTFB gene. Nucleic acids ABL39414-ABL39440 represent claimed EFTB
 CC allele-specific probes. Nucleic acids ABL39441-ABL39494 represent claimed
 CC EFTB allele-specific PCR primers. Nucleic acids ABL39495-ABL39548
 CC represent claimed EFTB primer-extension oligonucleotides

XX Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TCTTGGGCAG 17
 | | | | | | |
 Db 10 TCTTGGGCAG 1

RESULT 84
 ABL52253
 ID ABL52253 standard; DNA; 10 BP.
 XX
 AC ABL52253;
 XX

DT 15-JUL-2002 (first entry)

DE Human PHKG2 preferred oligonucleotide primer SEQ ID NO:40.

XX Human; phosphorylase kinase gamma 2 (testis); PHKG2; enzyme; SNP;
 KW phosphorylase kinase gamma 2; single nucleotide polymorphism;
 KW polymorphic; hepatotropic; gene therapy; glycogen storage disease;
 KW liver cirrhosis; primer; ss.

OS Homo sapiens.

XX WO200194365-A2.

PN 13-DEC-2001.

PD 11-JUN-2001; 2001WO-US018814.

PF 09-JUN-2000; 2000US-0210568P.

PR (GENA-) GENAISSANCE PHARM INC.

PA Choi JY, Koshy B, Sanchis A, Sausker EA;

PI WPI; 2002-404359/43.

DR New variants of phosphorylase kinase gamma 2 isogenes, useful for
 XX improving efficiency and reliability in the development of drugs for
 XX treating diseases e.g. liver cirrhosis.

PS Claim 18; Page 14; 76pp; English.

XX The present invention describes an isolated polynucleotide (I) comprising
 CC a nucleotide sequence which is a polymorphic variant of a reference
 CC sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
 CC its fragment, or a polymorphic variant of a reference sequence for a
 CC PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
 CC (II) comprising an amino acid sequence which is a polymorphic variant of
 CC a reference sequence for PHKG2 protein or its fragment, where the
 CC reference sequence comprises a sequence (see AB09290) of 406 amino
 CC acids, and the polymorphic variant comprises one or more variant amino
 CC acids selected from glutamic acid at a position corresponding to amino
 CC acid position 153 and tryptophan at position corresponding to amino acid
 CC position 329. (I) has hepatotropic activity and can be used in gene
 CC therapy. (II) is useful in screening for drugs targeting (II), by
 CC contacting a PHKG2 polymorphic variant with a candidate agent and

CC assaying for binding activity. The identified candidate agents targeting
CC PHK2, are useful for treating liver cirrhosis and glycogen storage
CC diseases. The present sequence represents a preferred oligonucleotide
CC primer for the PHK2 gene, which is used in the exemplification of the
CC present invention
XX
SQ Sequence 10 BP; 1 A; 7 C; 0 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCCACCTTCT 10
DB 1 CCCACCTTCT 10
RESULT 85
ABL52252/C
ID ABL52252 standard; DNA; 10 BP.
XX
AC ABL52252;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human PHK2 preferred oligonucleotide primer SEQ ID NO:39.
XX
KW Human; phosphorylase kinase gamma 2 (testis); PHK2; enzyme; SNP;
KW phosphorylase kinase gamma 2; single nucleotide polymorphism;
KW polymorphic; hepatocytic; gene therapy; glycogen storage disease;
KW liver cirrhosis; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200194365-A2.
XX
PD 13-DEC-2001.
XX
PF 11-JUN-2001; 2001WO-US018814.
XX
PR 09-JUN-2000; 2000US-0210568P.
XX
PA (GENA-) GENAISANCE PHARM INC.
XX
PI Choi JY, Koshy B, Sanchis A, Sausker EA;
XX
WPI; 2002-404359/43.
XX
New variants of phosphorylase kinase gamma 2 isogenes, useful for
PT improving efficiency and reliability in the development of drugs for
PT treating diseases e.g. liver cirrhosis.
XX
PS Claim 18; Page 14; 76pp; English.
XX
The present invention describes an isolated polynucleotide (I) comprising
CC a nucleotide sequence which is a polymorphic variant of a reference
CC sequence for human phosphorylase kinase gamma2 (testis) (PHK2) gene or
CC its fragment, or a polymorphic variant of a reference sequence for a
CC PHK2 cDNA or its fragment. Also described is an isolated polypeptide
CC (II) comprising an amino acid sequence which is a polymorphic variant of
CC a reference sequence for PHK2 protein or its fragment, where the
CC acids, and the polymorphic variant comprises one or more variant amino
CC acids selected from glutamic acid at a position corresponding to amino
CC acid position 153 and tryptophan at position corresponding to amino
CC position 329. (I) has hepatocytic activity and can be used in gene
CC therapy. (II) is useful in screening for drugs targeting (II), by
CC contacting a PHK2 polymorphic variant with a candidate agent and
CC assaying for binding activity. The identified candidate agents targeting
CC PHK2, are useful for treating liver cirrhosis and glycogen storage
CC diseases. The present sequence represents a preferred oligonucleotide
CC primer for the PHK2 gene, which is used in the exemplification of the
CC present invention

XX
SQ Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCCACCTTCT 10
DB 10 CCCACCTTCT 1
RESULT 86
ABV78454
ID ABV78454 standard; cDNA; 10 BP.
XX
AC ABV78454;
XX
DT 29-NOV-2002 (first entry)
XX
DE Human transcription factor CA150 SAGE tag, SEQ ID NO:165.
XX
KW SAGE tag; serial analysis of gene expression; human; Th1 cell;
KW activated T cell; T lymphocyte; immune response; expression pattern;
KW preferential expression; immune disorder; ss.
XX
OS Homo sapiens.
XX
PN JP2002186482-A.
XX
PD 02-JUL-2002.
XX
PF 19-DEC-2000; 2000JP-00385816.
XX
PR 19-DEC-2000; 2000JP-00385816.
XX
PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
DR WPI; 2002-594261/64.
XX
PT Human activated Th1 and Th2 cell expression gene group, useful for the
PT diagnosis and treatment of Th1 and Th2-related diseases.
XX
PS Claim 19; Page 11; 60pp; Japanese.
XX
The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are expressed in activated human Th1
CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence
CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif
CC lying nearest to the polyA region of cDNAs derived from a variety of
CC genes. These tags serve to uniquely identify each transcript and can thus
CC be used to analyse the pattern of gene expression in particular cell
CC types. The invention also relates to proteins encoded by the genes
CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
CC inhibitors of the expression of groups of genes that are expressed in
CC either or both the two cell types. Groups of genes expressed in Th1
CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1
CC and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags
CC representing 171 genes which are more highly expressed in Th1 cells
CC compared with Th2 cells
XX
SQ Sequence 10 BP; 3 A; 2 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 10 TTGGCCAGAA 19
DB 1 TTGGCCAGAA 10

RESULT 87

ABV84246/c
 ID ABV84246 standard; cDNA; 10 BP.
 XX
 AC ABV84246;
 XX
 DT 12-DEC-2002 (first entry)
 XX
 DE Human mitochondrial F0 complex ATP synthase-like EST SAGE tag #56.
 XX
 XX SAGE tag; serial analysis of gene expression; human; chronic hepatitis C;
 KW CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
 KW expression pattern; differential expression; EST; expressed sequence tag;
 KW ss.
 XX
 XX Homo sapiens.
 OS
 XX JF2002209591-A.
 XX
 PN 30-JUL-2002.
 XX
 PD 19-JAN-2001; 2001JP-00012328.
 XX
 PF 19-JAN-2001; 2001JP-00012328.
 XX
 PR (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
 XX
 PA WPI; 2002-631294/68.
 XX
 DR Human chronic hepatitis C tissue expression exasperating gene group
 XX comprises 100 high-ranking genes.
 PT
 FT Claim 1; Page 11; 139pp; Japanese.
 XX
 PS The invention relates to SAGE (serial analysis of gene expression) tags
 CC representing groups of genes which are differentially expressed in human
 CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced
 CC hepatocellular carcinoma (HCC) compared with normal human liver tissue.
 CC The SAGE tags of this invention consist of a sequence of 10 nucleotides
 CC located downstream of the 5'-CATG-3' sequence motif lying nearest to the
 CC polyA region of cDNAs derived from a variety of genes. These tags serve
 CC to uniquely identify each transcript and can thus be used to analyse the
 CC pattern of gene expression in particular cell types. The invention also
 CC relates to proteins encoded by the genes expressed in chronic hepatitis C
 CC liver tissue or HCC, antibodies against these proteins, and inhibitors of
 CC the expression of groups of genes that are overexpressed in chronic
 CC hepatitis C liver tissue or HCC. Groups of genes differentially expressed
 CC in chronic hepatitis C tissue or HCC may be used for the diagnosis and
 CC treatment of these diseases. Such genes, inhibitors of their expression
 CC or activity, and antibodies against the gene products may be used in the
 CC development of drugs to treat chronic hepatitis C and/or HCC. Sequences
 CC ABV84191-ABV84290 are SAGE tags representing the 100 most highly
 CC expressed genes out of those genes which are overexpressed in chronic
 CC hepatitis C liver tissue compared with normal liver tissue
 XX
 SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1
 XX
 RESULT 88
 ABK23703/c
 ID ABK23703 standard; DNA; 10 BP.
 XX
 AC ABK23703;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Smooth muscle; myosin; SM-MHC; rat; gene therapy; promoter; CARG2;
 KW antiarteriosclerotic; antiasthmatic; antiinflammatory; cardiant;
 KW hypotensive; transgenic animal; ds.
 XX
 OS Rattus sp.
 XX
 PN WO200259270-A2.
 XX
 PD 01-AUG-2002.
 XX
 PF 24-JAN-2002; 2002WO-US002016.
 XX
 PS Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1
 XX
 RESULT 89
 ABN84506
 ID ABN84506 standard; DNA; 10 BP.
 XX
 AC ABN84506;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Rat smooth muscle myosin heavy chain gene CARG2 motif.
 XX
 OS Smooth muscle; myosin; SM-MHC; rat; gene therapy; promoter; CARG2;
 KW antiarteriosclerotic; antiasthmatic; antiinflammatory; cardiant;
 KW hypotensive; transgenic animal; ds.
 XX
 OS Rattus sp.
 XX
 PN WO200259270-A2.
 XX
 PD 01-AUG-2002.
 XX
 PF 24-JAN-2002; 2002WO-US002016.
 XX
 PS Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1
 XX

DE Transcript tag DNA sequence #292 induced or suppressed by N-myc.
 XX
 KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
 KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
 KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200185941-A2.
 XX
 PD 15-NOV-2001.
 XX
 PF 11-MAY-2001; 2001WO-NL000361.
 XX
 PR 11-MAY-2000; 2000EP-00201698.
 PR 29-JUN-2000; 2000EP-00202284.
 XX
 PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
 XX
 PI Versteeg R, Caron HN;
 XX
 XX WPI; 2002-066603/09.
 DR
 XX A new nucleic acid library of myc-dependent downstream genes capable of
 PT supporting a neoplastic characteristic of cancer is useful to find new
 PT therapies and diagnoses for cancer.
 XX
 PS Disclosure; Page 57; 69pp; English.
 XX
 CC The present invention relates to a nucleic acid library comprising myc-
 CC dependent downstream genes or their functional fragments essentially
 CC capable of supporting a neoplastic character of cancer such as growth,
 CC invasion or spread. These myc target or tag sequences are identified by
 CC SAGE (serial analysis of gene expression). The library is useful to find
 CC new diagnoses and treatments for cancer. The invention is also useful to
 CC enhance production of recombinant proteins in a production system with
 CC high expression of endogenous or transfected myc oncogenes. ABK23412-
 CC ABK23828 represent transcript tag DNA sequences that are activated or
 CC repressed by N-myc in human neuroblastoma
 XX
 SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1
 XX
 RESULT 89
 ABN84506
 ID ABN84506 standard; DNA; 10 BP.
 XX
 AC ABN84506;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Rat smooth muscle myosin heavy chain gene CARG2 motif.
 XX
 OS Smooth muscle; myosin; SM-MHC; rat; gene therapy; promoter; CARG2;
 KW antiarteriosclerotic; antiasthmatic; antiinflammatory; cardiant;
 KW hypotensive; transgenic animal; ds.
 XX
 OS Rattus sp.
 XX
 PN WO200259270-A2.
 XX
 PD 01-AUG-2002.
 XX
 PF 24-JAN-2002; 2002WO-US002016.
 XX
 PS Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1
 XX

```

PR 24-JAN-2001; 2001US-0263811P.
XX (OWEN/) OWENS G K.
PA (MANA/) MANABE I.
XX Owens GK, Manabe I;
XX WPI; 2002-599772/64.
DR New smooth muscle myosin heavy chain promoter/enhancers, useful for
XX smooth muscle tissue-specific targeting and expression, or for genetic
PT engineering as a means to investigate smooth muscle cell physiology and
PT pathophysiology.
XX Example 4; Page 56; 110pp; English.
XX The present sequence is the CarG2 motif of the promoter/enhancer region
CC of the rat smooth muscle myosin heavy chain (SM-MHC) gene (see also
CC ABN84504). The present invention provides polynucleotide sequences which
CC confer to an operably linked polynucleotide cell-specific expression
CC within SM cells in vivo. These are derived from the rat or human SM-MHC
CC gene. In some, the CarG2 or the intron CarG motif is mutated to confer
CC subtype specificity. For example, the present sequence is preferably
CC altered to the sequence given in ABN84507 by site-directed mutagenesis.
CC The heterologous polynucleotide linked to the SM-MHC promoter preferably
CC encodes a toxin, a prodrug-converting enzyme, a tumour suppressor, a
CC sensitising agent, an apoptotic factor, an angiogenesis inhibitor, a
CC cytokine or an immunogenic antigen, or is an antisense polynucleotide or
CC a catalytic polynucleotide. Expression vectors, e.g. retroviral, adeno-
CC associated viral and adenoviral vectors, host cells and transgenic
CC animals are provided. The SM-MHC promoter/enhancer provides for specific
CC expression in SM cells of the bladder, gastrointestinal tract or urinary
CC tract, aorta artery, carotid artery, pulmonary artery, vena cava vein or
CC vascular SM. The compositions and methods for targeted gene delivery and
CC expression are useful in treating diseases associated with abnormal
CC function of SM cells, e.g. systemic hypertension, pulmonary hypertension,
CC atherosclerosis, asthma, coronary artery disease, gastrointestinal
CC abnormalities, reproductive dysfunction or chronic bronchitis
XX Sequence 10 BP; 0 A; 2 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 CCTTCTTGGG 14
Db ||||| |||||
1 CCTTTTGGG 10

RESULT 90
ACA60848
ID ACA60848 standard; DNA; 10 BP.
XX ACA60848;
XX ACA60848;
XX
XX 03-JUL-2003 (first entry)
XX Rat smooth muscle myosin heavy chain wild-type CarG2 motif.
XX
XX Rat; ds; smooth muscle; myosin heavy chain; SM-MHC; CarG; hypotensive;
KW antiatherosclerotic; antiasthmatic; antiinflammatory; promoter; enhancer;
KW systemic hypertension; pulmonary hypertension; atherosclerosis; asthma;
KW coronary artery disease; gastrointestinal abnormality; stem cell;
KW reproductive dysfunction; chronic bronchitis; tissue regeneration.
XX
OS Rattus sp.
XX
XX US2003017549-A1.
PN
XX 23-JAN-2003.
PD
XX 24-JAN-2002; 2002US-00057726.
PF

XX 16-JAN-1998; 98US-0071300P.
PR 15-JAN-1999; 99WO-US001038.
PR 13-JUL-2000; 2000US-00600319.
PR 24-JAN-2001; 2001US-0263811P.
XX (OWEN/) OWENS G K.
PA Owens GK, Manabe I;
XX WPI; 2002-599772/64.
DR New smooth muscle myosin heavy chain promoter/enhancers, useful for
XX smooth muscle tissue-specific targeting and expression, or for genetic
PT engineering as a means to investigate smooth muscle cell physiology and
PT pathophysiology.
XX Example 4; Page 23; 75pp; English.
XX The invention relates to an isolated, synthetic, or recombinant
CC polynucleotide comprising a smooth muscle myosin heavy chain (SM-MHC)
CC promoter/enhancer sequence capable of conferring smooth muscle specific
CC expression in vivo. Also included are expression vectors comprising the
CC SM-MHC promoter/enhancers, a genetically engineered host cell comprising
CC the vector, a transgenic non-human animal comprising the SM-MHC promoter/
CC enhancer and screening a compound that modulates the activity of an SM-
CC MHC promoter/enhancer. The SM-MHC promoter/enhancer is useful for
CC expressing a polynucleotide (a reporter gene or polynucleotide encoding a
CC therapeutic protein) in a smooth muscle cell in vivo. The smooth muscle
CC cell is in a coronary artery, aorta, airway smooth muscle, or pulmonary
CC vascular smooth muscle, or bladder smooth muscle, gastrointestinal tract
CC smooth muscle, urinary tract smooth muscle, or gastrointestinal tract
CC smooth muscle, or small branching artery smooth muscle. The SM-MHC
CC promoter/enhancer further comprises a minimal thymidine kinase (TK)
CC promoter. The targeted delivery of the SM-MHC promoter/enhancer is useful
CC for development of animal models of human disease to assist in
CC development of new therapeutic targets or development of animals models
CC for purpose of screening new drugs/therapies. The SM-MHC promoter/
CC enhancer facilitates targeted gene delivery to express a gene of interest
CC within an SMC. Targeted gene delivery and expression of the SM-MHC
CC promoter/enhancer is useful for treating diseases associated with
CC abnormal function of SMC including systemic hypertension, pulmonary
CC hypertension, atherosclerosis, asthma, coronary artery disease,
CC gastrointestinal abnormalities, reproductive dysfunction and chronic
CC bronchitis. The SM-MHC promoter/enhancer and transformed cells are useful
CC for identifying and selecting SMC derived from multi-potent stem cell
CC populations for purposes of tissue generation/regeneration for surgery
CC (e.g. for blood vessel, bladder, or gastrointestinal smooth muscle tissue
CC augmentation-reconstitution). The SM-MHC genes contain CarG motifs in
CC their promoter and first intron regions, these motifs are thought to be
CC responsible for smooth muscle cell subtype specific expression of SM-MHC.
CC The present sequence is a rat SM-MHC wild-type CarG motif
XX Sequence 10 BP; 0 A; 2 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 CCTTCTTGGG 14
Db ||||| |||||
1 CCTTTTGGG 10

RESULT 91
ABQ72900
ID ABQ72900 standard; DNA; 10 BP.
XX AC ABQ72900;
XX AC ABQ72900;
XX 06-SEP-2002 (first entry)
XX
XX

```


DE Human GRM8 gene polymorphism detection primer, SEQ ID NO:104.
 XX Human; glutamate receptor metabotropic 8; GRM8; receptor;
 KW chromosome 7q31.3-32.1; neurotransmission; glutamate-mediated;
 KW Smith-Lemli-Opitz syndrome; retinitis pigmentosa;
 KW neuropathological disorder; neuroprotective; ophthalmological;
 KW gene therapy; haplotyping; genotyping; haplotype; genetic variant;
 KW single nucleotide polymorphism; SNP; drug screening; drug discovery;
 KW primer extension; primer; ss.
 XX Homo sapiens.
 OS
 XX WO200238587-A2.
 PN
 XX 16-MAY-2002.
 XX
 XX 09-NOV-2001; 2001WO-US047325.
 PF
 XX 09-NOV-2000; 2000US-0247576P.
 XX
 XX (GENA-) GENAISSANCE PHARM INC.
 PA
 XX Bieglecki KM, Chew A, Choi JY, Koshy B, Parks KE;
 PI
 XX WPI; 2002-519291/55.
 DR
 XX Genetic variants of Glutamate Receptor, Metabotropic 8 isogenes, useful
 PT for improving efficiency and reliability in drug development for treating
 PT neuropathological conditions and retinitis pigmentosa.
 XX
 XX Claim 17; Page 15; 110pp; English.
 PS
 XX The invention relates to a method for haplotyping the glutamate receptor,
 CC metabotropic 8 (GRM8) gene (ABQ72798, ABQ72905) of an individual, and
 CC also describes 21 novel polymorphic sites within the human GRM8 gene. The
 CC GRM8 gene is located on chromosome 7q31.3-32.1 and contains 10 exons
 CC which encode a 908 amino acid protein (AB009564). GRM8 is involved in
 CC glutamate-mediated neurotransmission, being a member of a subfamily of
 CC metabotropic glutamate receptors that inhibit the activity of adenylate
 CC cyclase in response to glutamate stimulation. The chromosomal location of
 CC the GRM8 gene encompasses regions linked to Smith-Lemli-Opitz syndrome
 CC and a form of retinitis pigmentosa. GRM8 nucleic acid sequences are
 CC useful in studying the expression and function of GRM8, and in expressing
 CC GRM8 protein for use in screening drugs for the treatment of GRM8-
 CC associated diseases (e.g., neuropathological disorders, Smith-Lemli-Opitz
 CC syndrome and retinitis pigmentosa). GRM8 nucleic acids and proteins are
 CC also useful in studying the effect of polymorphisms on the biological
 CC activity of GRM8. Polymorphisms in the target region may be determined by
 CC the use of allele-specific oligonucleotides (ASOs; ABQ72800-ABQ72862) as
 CC probes and primers, and by primer extension using oligonucleotide primers
 CC comprising sequences ABQ72863-ABQ72904. The method of the invention is
 CC useful for haplotyping the GRM8 gene in populations and in individuals,
 CC enabling decisions to be made as to whether GRM8 is a likely therapeutic
 CC target for a disease of interest, and in the design of clinical trials of
 CC candidate drugs for treating GRM8-associated disorders. In addition,
 CC transgenic animals comprising a human GRM8 gene are useful for studying
 CC the expression of GRM8 isogenes in vivo, for in vivo screening and
 CC testing of drugs targeted to GRM8, and for testing the efficacy of
 CC therapeutic agents and compounds for treating GRM8-associated conditions
 CC in a biological system. Sequences ABQ72863-ABQ72904 represent sequences
 CC that are specifically claimed as components of primers used to detect
 CC polymorphisms in the GRM8 gene by primer extension
 XX
 SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 11 TGGGAGAG 20
 Db 1 TGGTACAG 10

RESULT 92
 ABR96537
 ID ABR96537 standard; DNA; 10 BP.
 XX AC ABR96537;
 XX DT 24-SEP-2002 (first entry)
 XX Human PLAU gene, primer extension primer 3' terminus #10.
 DE Human; ss; primer; plasminogen activator; urokinase; PLAU; cancer;
 XX Cystostatic; serine protease; thrombolytic disorder; isogene; PCR;
 KW pulmonary embolism; chromosome 10q24-qter; haplotype; genotype; SNP;
 KW single nucleotide polymorphism; thrombolytic; gene therapy;
 KW primer extension.
 XX Homo sapiens.
 OS
 XX WO200240503-A2.
 PN
 XX 23-MAY-2002.
 PD
 XX 14-NOV-2001; 2001WO-US044001.
 PF
 XX 17-NOV-2000; 2000US-0249703P.
 PR
 XX (GENA-) GENAISSANCE PHARM INC.
 PA
 XX Anastasio AE, Bentivegna SC, Koshy B;
 PI
 XX WPI; 2002-519370/55.
 DR
 XX Genetic variants of Plasminogen activator, Urokinase (PLAU) isogenes,
 PT useful for improving efficiency and reliability in drug development for
 PT treating thrombolytic disorders and cancer.
 XX
 XX Claim 16; Page 14; 92pp; English.

The invention relates to a polynucleotide comprising a first nucleotide
 sequence (NSI) comprising a PLAU (plasminogen activator, urokinase, a
 serine protease) isogene selected from isogenes 1-9 and 11-20 given in
 the specification, where each isogene comprises the regions of the PLAU
 gene or cDNA and is further defined by the corresponding sequence of
 polymorphisms (defining single nucleotide polymorphisms, SNP). Also
 included are methods of haplotyping/genotyping (and predicting the
 haplotype/genotype of the PLAU gene of an individual, identifying an
 association between a trait and at least one haplotype or haplotype pair
 of the PLAU gene, an isolated oligonucleotide for detecting a
 polymorphism in the PLAU gene, a recombinant non-human organism
 transformed or transfected with the gene or cDNA, fragments of the
 polynucleotides of at least 10 base pairs encompassing a polymorphic
 site, an isolated polymorphic variant PLAU protein or fragment, an
 isolated monoclonal antibody specific for PLAU, a computer system for
 storing and analysing polymorphism data for the PLAU gene and a genome
 anchoring for the PLAU gene. PLAU is useful in screening for drugs
 targeting PLAU that are useful for treating thrombolytic disorders and
 cancers. The methods are useful for improving the efficiency and
 reliability of the discovery and development of drugs for treating
 diseases associated with PLAU activity, in validating PLAU as a drug
 target and in the design of clinical trials for treating a specific
 condition of disease associated with PLAU activity. The antibody is
 useful in diagnostic, prognostic and therapeutic methods. PLAU
 polynucleotides are useful in studying the expression and function of
 PLAU, and in expressing PLAU protein for use in screening for candidate
 drugs to treat diseases related to PLAU activity. The gene for PLAU is
 located on chromosome 10q24-qter. The present sequence is the 3' terminus
 of an allele specific primer used to amplify PLAU polynucleotides with a
 specific polymorphism using the technique of primer extension

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 TTCTTGGGCA 16
DB 1 TCCTTGGGCA 10

RESULT 93
ACF04526/c
ID ACF04526 standard; DNA; 10 BP.
AC ACF04526;
XX
XX
XX 04-DEC-2003 (first entry)
XX
XX
XX Stuffer sequence used in NA detection by mass spectrometry #9.
XX
XX Mass spectrometry; nucleic acid sequence detection; stuffer sequence; ds.
XX
XX Synthetic.
XX
XX WO2003060163-A2.
XX
XX 24-JUL-2003.
XX
XX 30-DEC-2002; 2002WO-NL000872.
XX
XX 28-DEC-2001; 2001EP-00205114.
XX
XX (KEYG-) KEYGENE NV.
XX
XX Van Eijk MJT, Van Schaik C;
XX
XX WPI; 2003-598543/56.
XX

Determining the presence or absence of target sequences in nucleic acid samples, useful for e.g. genetic mapping or DNA fingerprinting, comprises employing an oligonucleotide ligation assay in combination with mass spectrometry.
Example 3; Page 27; 68pp; English.

The present invention relates to a method of determining the presence or absence of at least one target sequence in a nucleic acid sample, which comprises employing an oligonucleotide ligation assay in combination with a detection method based upon molecular mass, preferably mass spectrometry. The method is useful for high-throughput detection of a multiplicity of target nucleotide sequences, for detecting polymorphisms (preferably single nucleotide polymorphism), for transcript profiling, for detecting quantitative abundance of target nucleic acid sequences, for genetic mapping, gene discovery, marker-assisted selection, seed quality control, hybrid selection, QTL mapping, bulked segregant analysis, DNA fingerprinting and for disclosing information relating to traits, disease resistance, yield, hybrid vigor, and/or gene function. The set of oligonucleotide probes, which comprises a probe for each allele of a single nucleotide polymorphism, is useful for determining the presence or absence of at least one target sequence in a nucleic acid sample. The present sequence is a stuffer sequence used in the exemplification of the invention

Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCCACCTTCT 10
DB 10 CCCACCTTCT 1

RESULT 94

AAAI6595/c
ID AAAI6595 standard; DNA; 11 BP.
AC AAAI6595;
XX
XX 16-JUN-2000 (first entry)
XX
XX Human MN gene 5' donor consensus splice sequence SEQ ID NO:73.
XX
XX Human; MN protein; MN gene; oncogene; carbonic anhydrase; tumour;
XX
XX oncogenesis; diagnosis; neoplastic disease; cancer; carcinoma;
XX
XX MN/CA IX isoenzyme; ds.
XX
XX Homo sapiens.
XX
XX US6027887-A.
XX
XX 22-FEB-2000.
XX
XX 24-JAN-1997; 97US-00787739.
XX
XX 21-OCT-1992; 92US-00964589.
XX
XX 30-DEC-1993; 93US-00177093.
XX
XX 15-JUN-1994; 94US-00360190.
XX
XX 07-JUN-1995; 95US-00477504.
XX
XX 07-JUN-1995; 95US-00481658.
XX
XX 07-JUN-1995; 95US-00485049.
XX
XX 07-JUN-1995; 95US-00485862.
XX
XX 07-JUN-1995; 95US-00485863.
XX
XX 07-JUN-1995; 95US-00486756.
XX
XX 07-JUN-1995; 95US-00487077.
XX
XX (SLSC-) SLOVAK ACAD SCI INST VIROLOGY.
XX
XX Pastorek J, Zavada J, Pastorekova S;
XX
XX WPI; 2000-194827/17.
XX
XX Nucleic acid based assay for diagnosing a wide variety of
XX
XX preneoplastic/neoplastic disease comprises screening for the presence of
XX
XX abnormal MN gene expression in a vertebrate.
XX
XX Disclosure; Col 16; 87pp; English.
XX
XX The present invention describes a method of screening for
XX
XX preneoplastic/neoplastic disease. The method comprises: (1) determining
XX
XX whether abnormal MN gene expression is present in a vertebrate; and (2)
XX
XX if abnormal MN gene expression is determined to be present in the
XX
XX vertebrate, determining that the vertebrate has a significant risk of
XX
XX having preneoplastic/neoplastic disease. The MN gene is an oncogene and
XX
XX encodes an MN protein (also referred to as MN/CA IX isoenzyme). The MN
XX
XX protein is a tumour associated carbonic anhydrase isoenzyme. The method
XX
XX is used for detecting a wide variety of preneoplastic/neoplastic diseases
XX
XX in a vertebrate, preferably a human. The disease detected is mammary,
XX
XX bladder, renal, urinary tract, ovarian, uterine, cervical, endometrial,
XX
XX vaginal, vulval, prostate, liver, lung, skin, thyroid, pancreatic,
XX
XX testicular, brain, head and neck, mesodermal, gallbladder, rectal,
XX
XX duodenal, jejunal, ileal, gastric, pancreatic duct, liver duct, gastric
XX
XX mucosa, gallbladder epithelium, small intestinal mucosa, colorectal
XX
XX mucosa, pancreatic duct epithelium or liver duct epithelium
XX
XX preneoplastic/neoplastic disease. AAAI6540 to AAAI6617 and AAY53228 to
XX
XX AAY53245 represent sequences used in the exemplification of the present
XX
XX invention

Sequence 11 BP; 2 A; 2 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCCACCTTCT 10
DB 10 CCCACCTTCT 1

```

RESULT 95
AA52514/c
ID  AA52514 standard; DNA, 11 BP.
XX  AC
XX  AA52514;
DT  25-SEP-2000 (first entry)
XX  AC
DE  Human MN gene intron 7 splice donor sequence.
XX  MN protein; tumour associated cell adhesion molecule; oncoprotein;
XX  proteoglycan domain; PG domain; carbonic anhydrase; CA domain;
XX  abnormal expression; neoplastic disease; cancer; gene therapy; ds.
XX  OS
XX  Homo sapiens.
XX  PN
XX  WO200024913-A2.
XX  PD
XX  04-MAY-2000.
XX  PF
XX  22-OCT-1999; 99WO-US024879.
XX  PR
XX  23-OCT-1998; 98US-00177776.
XX  PR
XX  23-OCT-1998; 98US-00178115.
XX  PA
XX  (FARB ) BAYER CORP.
XX  PA
XX  (VIRO-) INST VIROLOGY.
XX  PI
XX  Zavada J, Pastorekova S, Pastorek J;
XX  WPI; 2000-350752/30.
XX  DR
XX  A molecule which specifically binds to a site on MN protein (oncoprotein)
XX  and prevents adhesion of vertebrate cells to the protein, useful for
XX  PT treating preneoplastic or neoplastic diseases such as cancer.
XX  PS
XX  Disclosure; Page 26; 154pp; English.
XX  CC
XX  The invention relates to the inhibition of cell adhesion mediated by the
XX  CC MN oncoprotein (also known as the MN/CA IX isoenzyme or the MN/G250
XX  CC protein). The MN protein is a tumour-associated adhesion molecule which
XX  CC comprises a proteoglycan-like (PG) domain (AAB03017) which contains the
XX  CC protein's binding site, and a carbonic anhydrase (CA) domain (AAB03018).
XX  CC Abnormal expression of the MN protein is associated with tumorigenicity.
XX  CC The invention encompasses molecules (e.g., proteins and peptides) which
XX  CC which specifically bind to a site on the MN protein, thereby preventing
XX  CC adhesion of vertebrate cells to the protein in a cell adhesion assay. It
XX  CC also encompasses MN proteins or MN protein fragments which can be added
XX  CC to the extracellular environment to prevent the adhesion of vertebrate
XX  CC cells to each other. The invention also relates to the identification of
XX  CC the binding site of the MN protein and to a method of identifying a site
XX  CC on an MN protein to which cells adhere, comprising testing a series of
XX  CC overlapping peptides from the protein in a cell adhesion assay. The
XX  CC invention encompasses a vector comprising an expression control sequence
XX  CC operatively linked to a nucleic acid encoding the variable domains of a
XX  CC MN-specific antibody, where the domains are separated by a flexible
XX  CC linker peptide (AAB03035) and the vector inhibits the growth of a
XX  CC vertebrate preneoplastic or neoplastic cell that abnormally expresses MN
XX  CC protein. The invention also encompasses a vector comprising a nucleic
XX  CC acid encoding a cytotoxic protein or peptide operatively linked to the MN
XX  CC gene promoter, which inhibits the growth of a vertebrate preneoplastic or
XX  CC neoplastic cell. Also claimed is a repressor complex that binds to the MN
XX  CC gene promoter (AAA52473). MN proteins and peptides, MN-binding proteins
XX  CC and peptides, and expression vectors encoding such proteins and peptides
XX  CC are useful for treating patients with preneoplastic or neoplastic disease
XX  CC (e.g., cancers) associated with or characterised by abnormal MN
XX  CC expression. The present sequence represents a fragment of the human MN
XX  CC gene (AAA52462) specified in the invention
XX  SQ
XX  Sequence 11 BP; 2 A; 2 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CACCTTCTTG 12
Db 2 CACCTTATTG 11

RESULT 97
ABQ87500
ID  ABQ87500 standard; cDNA, 11 BP.
XX  AC
XX  ABQ87500;
XX  AC
XX  ABQ87500;
DT  10-SEP-2002 (first entry)

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CACCTTCTTG 12
Db 2 CACCTTATTG 11

RESULT 96
ABQ87504
ID  ABQ87504 standard; cDNA, 11 BP.
XX  AC
XX  ABQ87504;
XX  AC
XX  ABQ87504;
DT  10-SEP-2002 (first entry)
XX  AC
DE  Human skin stress/ageing related EST SEQ ID NO 1259.
XX  KW
XX  Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX  OS
XX  Homo sapiens.
XX  PN
XX  WO200253773-A2.
XX  PD
XX  11-JUL-2002.
XX  PF
XX  20-DEC-2001; 2001WO-EP015178.
XX  PR
XX  03-JAN-2001; 2001DE-01000121.
XX  PA
XX  (HENK ) HENKEL KGAA.
XX  PI
XX  Petersohn D, Conradt M, Hofmann K;
XX  WPI; 2002-528865/56.
XX  DR
XX  Identifying genes involved in skin stress and aging, useful e.g. in
XX  PT screening for cosmetic or therapeutic agents, based on differential gene
XX  PT expression.
XX  PS
XX  Claim 8; Page 89; 325pp; German.
XX  CC
XX  The invention relates to identifying (M1) genes in vitro that, in humans
XX  CC or animals, are important for skin ageing and/or skin stress by serial
XX  CC analysis of gene expression between mixtures of transcribed and
XX  CC optionally translated, genetically encoded factors (A) obtained from
XX  CC young and aged skin, to identify that genes that show strong differential
XX  CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
XX  CC useful for: identifying markers of skin ageing and/or stress; determining
XX  CC skin ageing and/or stress; and identifying or determining the effects of
XX  CC pharmaceutical or cosmetic agents for control of skin ageing. The present
XX  CC sequence is one of a group of human skin ageing/stress related expressed
XX  CC sequence tags (ABQ86246-ABQ87680) of the invention
XX  SQ
XX  Sequence 11 BP; 2 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
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XX DE Human skin stress/ageing related EST SEQ ID NO 1255.
XX KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253773-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015178.
XX PR 03-JAN-2001; 2001DE-01000121.
XX PA (HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX WI; 2002-528865/56.
XX PT Identifying genes involved in skin stress and aging, useful e.g. in
XX screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX PS Claim 8; Page 89; 325pp; German.
XX CC The invention relates to identifying (M1) genes in vitro that, in humans
XX or animals, are important for skin ageing and/or skin stress by serial
XX analysis of gene expression between mixtures of transcribed and
XX optionally translated, genetically encoded factors (A) obtained from
XX young and aged skin, to identify that genes that show strong differential
XX expression. (A) comprises protein or mRNAs or their fragments. (M1) is
XX useful for: identifying markers of skin ageing and/or stress; determining
XX skin ageing and/or stress; and identifying or determining the effects of
XX pharmaceutical or cosmetic agents for control of skin ageing. The present
XX sequence is one of a group of human skin ageing/stress related expressed
XX sequence tags (ABQ86246-ABQ87680) of the invention
XX SQ Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CACCTTCTTG 12
Db 2 CACCTTCTGG 11

RESULT 98
ABQ86415/c
ID ABQ86415 standard; cDNA; 11 BP.
XX AC ABQ86415;
XX 10-SEP-2002 (first entry)
XX DE Human skin stress/ageing related EST SEQ ID NO 170.
XX KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253773-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015178.
XX PR 03-JAN-2001; 2001DE-01000121.
XX PA (HENKEL KGAA.

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XX PI Petersohn D, Conradt M, Hofmann K;
XX WI; 2002-528865/56.
XX PT Identifying genes involved in skin stress and aging, useful e.g. in
XX screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX PS Claim 8; Page 44; 325pp; German.
XX CC The invention relates to identifying (M1) genes in vitro that, in humans
XX or animals, are important for skin ageing and/or skin stress by serial
XX analysis of gene expression between mixtures of transcribed and
XX optionally translated, genetically encoded factors (A) obtained from
XX young and aged skin, to identify that genes that show strong differential
XX expression. (A) comprises protein or mRNAs or their fragments. (M1) is
XX useful for: identifying markers of skin ageing and/or stress; determining
XX skin ageing and/or stress; and identifying or determining the effects of
XX pharmaceutical or cosmetic agents for control of skin ageing. The present
XX sequence is one of a group of human skin ageing/stress related expressed
XX sequence tags (ABQ86246-ABQ87680) of the invention
XX SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CCACCTTCTT 11
Db 11 CCACCTTCTT 2

RESULT 99
ABV66344/c
ID ABV66344 standard; cDNA; 11 BP.
XX AC ABV66344;
XX 21-OCT-2002 (first entry)
XX DE Human skin EST 4130.
XX KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX WI; 2002-590638/63.
XX PT In vitro identification of skin-expressed genes, useful for determining
XX homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
XX PS Disclosure; Page 139; 1345pp; German.
XX CC The invention relates to in vitro identification (M1) of genes expressed
XX in the skin of humans or animals by subjecting a mixture of genetically
XX encoded factors from skin, to serial analysis of gene expression (SAGE)

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CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 5 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TTCTTGGGCA 16
DB 11 TTTTGGGCA 2

RESULT 100
ABV62764/c
ID ABV62764 standard; cDNA; 11 BP.
XX AC ABV62764;
XX
XX 21-OCT-2002 (first entry)
XX Human skin EST 550.
XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX Homo sapiens.
XX OS
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENK) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENK) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
XX homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
XX
XX Disclosure; Page 40; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
XX in the skin of humans or animals by subjecting a mixture of genetically
XX encoded factors from skin, to serial analysis of gene expression (SAGE)
XX so as to identify skin-expressed genes and quantify their expression.
XX (M1) is useful for identifying genes involved in skin homeostasis; to
XX determine skin homeostasis and to test agent (A) that maintains or
XX promotes skin homeostasis or that can be used for treating skin
XX disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX skin. The present sequence is that of a human expressed sequence tag
XX (EST) of the invention
XX
SQ Sequence 11 BP; 4 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TTCTTGGGCA 16
DB 11 TTTTGGGCA 2

RESULT 102
ABV62651/c
ID ABV62651 standard; cDNA; 11 BP.
XX AC ABV62651;

Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCACCTTCCTT 11
DB 10 CCACCTTCCTT 1

RESULT 101
ABV70185/c
ID ABV70185 standard; cDNA; 11 BP.
XX AC ABV70185;
XX 21-OCT-2002 (first entry)
XX Human skin EST 7971.
XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX Homo sapiens.
XX OS
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENK) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
XX homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
XX
XX Claim 24; Page 254; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
XX in the skin of humans or animals by subjecting a mixture of genetically
XX encoded factors from skin, to serial analysis of gene expression (SAGE)
XX so as to identify skin-expressed genes and quantify their expression.
XX (M1) is useful for identifying genes involved in skin homeostasis; to
XX determine skin homeostasis and to test agent (A) that maintains or
XX promotes skin homeostasis or that can be used for treating skin
XX disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX skin. The present sequence is that of a human expressed sequence tag
XX (EST) of the invention
XX
SQ Sequence 11 BP; 4 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCACCTTCCTT 11
DB 10 CCACCTTCCTT 1

RESULT 102
ABV62651/c
ID ABV62651 standard; cDNA; 11 BP.
XX AC ABV62651;

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XX DT 21-OCT-2002 (first entry)
XX DE Human skin EST 437.
XX KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENK ) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX PS Disclosure; Page 37; 1345pp; German.
XX CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCCACTTCT 10
Db 2 CCCGCTTCT 11
RESULT 103
ABV67006/c
ID ABV67006 standard; cDNA; 11 BP.
XX AC ABV67006;
XX DT 21-OCT-2002 (first entry)
XX DE Human skin EST 4792.
XX KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253774-A2.

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PD 11-JUL-2002.
XX 20-DEC-2001; 2001WO-EP015179.
XX 03-JAN-2001; 2001DE-01000127.
XX (HENK ) HENKEL KGAA.
XX Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX PS Disclosure; Page 157; 1345pp; German.
XX CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 CCACCTTCTT 11
Db 11 CCACCTTCTT 2
RESULT 104
ABV67047
ID ABV67047 standard; cDNA; 11 BP.
XX AC ABV67047;
XX DT 21-OCT-2002 (first entry)
XX DE Human skin EST 4833.
XX KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX (HENK ) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
XX In vitro identification of skin-expressed genes, useful for determining

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PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX Disclosure; Page 158; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma of sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 3 CACCTTCTTG 12
 Db 2 CACCTTCTGG 11
 |||||
 |||||
 RESULT 105
 ABV64836/c
 ID ABV64836 standard; cDNA; 11 BP.
 AC ABV64836;
 XX
 XX 21-OCT-2002 (first entry)
 DT Human skin EST 2622.
 DE
 XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX Homo sapiens.
 OS
 XX
 XX WO200253774-A2.
 PN
 XX
 XX 11-JUL-2002.
 PD
 XX
 XX 20-DEC-2001; 2001WO-EP015179.
 PF
 XX
 XX 03-JAN-2001; 2001DE-01000127.
 PR (HENK) HENKEL KGAA.
 PA Petersohn D, Conradt M, Hofmann K;
 PI WPI; 2002-590638/63.
 DR
 XX
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 XX Disclosure; Page 98; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma of sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 CCACCTTCTT 11
 Db 10 CCACCTTTT 1
 |||||
 |||||
 RESULT 106
 ABV67092
 ID ABV67092 standard; cDNA; 11 BP.
 AC ABV67092;
 XX
 XX 21-OCT-2002 (first entry)
 DT Human skin EST 4878.
 DE
 XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX Homo sapiens.
 OS
 XX
 XX WO200253774-A2.
 PN
 XX
 XX 11-JUL-2002.
 PD
 XX
 XX 20-DEC-2001; 2001WO-EP015179.
 PF
 XX
 XX 03-JAN-2001; 2001DE-01000127.
 PR (HENK) HENKEL KGAA.
 PA Petersohn D, Conradt M, Hofmann K;
 PI WPI; 2002-590638/63.
 DR
 XX
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 XX Disclosure; Page 159; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma of sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 1 A; 5 C; 1 G; 4 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 CCACCTTCTT 11
 |||||
 |||||


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XX PA (HENK ) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX DR
XX PT In vitro identification of skin-expressed genes, useful for determining
XX PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX PT e.g. skin cancer.
XX PS Disclosure; Page 37; 1345pp; German.
XX PS
XX CC The invention relates to in vitro identification (M1) of genes expressed
XX CC in the skin of humans or animals by subjecting a mixture of genetically
XX CC encoded factors from skin, to serial analysis of gene expression (SAGE)
XX CC so as to identify skin-expressed genes and quantify their expression.
XX CC (M1) is useful for identifying genes involved in skin homeostasis; to
XX CC determine skin homeostasis and to test agent (A) that maintains or
XX CC promotes skin homeostasis or that can be used for treating skin
XX CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX CC skin. The present sequence is that of a human expressed sequence tag
XX CC (EST) of the invention
XX SQ Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTCTCTG 12
Db 11 CACTTCTCTG 2

RESULT 110
ABV65381/C
ID ABV65381 standard; cDNA; 11 BP.
XX AC ABV65381;
XX DT 21-OCT-2002 (first entry)
XX DE Human skin EST 3167.
XX KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
XX KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENK ) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX PT In vitro identification of skin-expressed genes, useful for determining
XX PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX PT e.g. skin cancer.
XX PS Disclosure; Page 113; 1345pp; German.
XX PS
XX CC The invention relates to in vitro identification (M1) of genes expressed
XX CC in the skin of humans or animals by subjecting a mixture of genetically
XX CC encoded factors from skin, to serial analysis of gene expression (SAGE)
XX CC so as to identify skin-expressed genes and quantify their expression.
XX CC (M1) is useful for identifying genes involved in skin homeostasis; to
XX CC determine skin homeostasis and to test agent (A) that maintains or
XX CC promotes skin homeostasis or that can be used for treating skin
XX CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX CC skin. The present sequence is that of a human expressed sequence tag
XX CC (EST) of the invention
XX SQ Sequence 11 BP; 3 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 52;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCCACCTTCT 10
Db 10 CCCACCTTCT 1

RESULT 111
ABV67446
ID ABV67446 standard; cDNA; 11 BP.
XX AC ABV67446;
XX DT 21-OCT-2002 (first entry)
XX DE Human skin EST 5232.
XX KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
XX KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX OS Homo sapiens.
XX PN WO200253774-A2.
XX PD 11-JUL-2002.
XX PF 20-DEC-2001; 2001WO-EP015179.
XX PR 03-JAN-2001; 2001DE-01000127.
XX PA (HENK ) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX DR WPI; 2002-590638/63.
XX PT In vitro identification of skin-expressed genes, useful for determining
XX PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX PT e.g. skin cancer.
XX PS Disclosure; Page 169; 1345pp; German.
XX PS
XX CC The invention relates to in vitro identification (M1) of genes expressed
XX CC in the skin of humans or animals by subjecting a mixture of genetically
XX CC encoded factors from skin, to serial analysis of gene expression (SAGE)
XX CC so as to identify skin-expressed genes and quantify their expression.
XX CC (M1) is useful for identifying genes involved in skin homeostasis; to
XX CC determine skin homeostasis and to test agent (A) that maintains or
XX CC promotes skin homeostasis or that can be used for treating skin
XX CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX CC skin. The present sequence is that of a human expressed sequence tag
XX CC (EST) of the invention
XX SQ Sequence 11 BP; 3 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

```


RESULT 113
ABV65314

XX PN WO200253774-A2.
 XX PD 11-JUL-2002.
 XX PF 20-DEC-2001; 2001WO-EP015179.
 XX PR 03-JAN-2001; 2001DE-01000127.
 XX PA (HENK) HENKEL KGAA.
 XX PI Petersohn D, Conradt M, Hofmann K;
 XX PT WPI; 2002-590638/63.
 XX PS In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX PS Claim 24; Page 250; 1345pp; German.
 XX CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 CCCACCTTCT 10
 Db 2 CCCGCTTCT 11
 RESULT 115
 ABV69202/c
 ID ABV69202 standard; cDNA; 11 BP.
 XX AC ABV69202;
 XX DT 21-OCT-2002 (first entry)
 XX DE Human skin EST 6988.
 XX KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX OS Homo sapiens.
 XX PN WO200253774-A2.
 XX PD 11-JUL-2002.
 XX PF 20-DEC-2001; 2001WO-EP015179.
 XX PR 03-JAN-2001; 2001DE-01000127.
 XX PA (HENK) HENKEL KGAA.
 XX PI Petersohn D, Conradt M, Hofmann K;
 XX PT WPI; 2002-590638/63.
 XX PS In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX PS Claim 24; Page 250; 1345pp; German.
 XX CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 CCCACCTTCT 10
 Db 2 CCCGCTTCT 11
 RESULT 116
 ABV70053/c
 ID ABV70053 standard; cDNA; 11 BP.
 XX AC ABV70053;
 XX DT 21-OCT-2002 (first entry)
 XX DE Human skin EST 7839.
 XX KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX OS Homo sapiens.
 XX PN WO200253774-A2.
 XX PD 11-JUL-2002.
 XX PF 20-DEC-2001; 2001WO-EP015179.
 XX PR 03-JAN-2001; 2001DE-01000127.
 XX PA (HENK) HENKEL KGAA.
 XX PI Petersohn D, Conradt M, Hofmann K;
 XX PT WPI; 2002-590638/63.
 XX PS In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX PS Claim 24; Page 250; 1345pp; German.
 XX CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX SQ Sequence 11 BP; 6 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1

DR WPI; 2002-590638/63.
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX PS Disclosure; Page 219; 1345pp; German.
 XX CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX SQ Sequence 11 BP; 6 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 CTTCTTGGGC 15
 Db 10 CTTCTTGTGC 1
 RESULT 116
 ABV70053/c
 ID ABV70053 standard; cDNA; 11 BP.
 XX AC ABV70053;
 XX DT 21-OCT-2002 (first entry)
 XX DE Human skin EST 7839.
 XX KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX OS Homo sapiens.
 XX PN WO200253774-A2.
 XX PD 11-JUL-2002.
 XX PF 20-DEC-2001; 2001WO-EP015179.
 XX PR 03-JAN-2001; 2001DE-01000127.
 XX PA (HENK) HENKEL KGAA.
 XX PI Petersohn D, Conradt M, Hofmann K;
 XX PT WPI; 2002-590638/63.
 XX PS In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX PS Claim 24; Page 250; 1345pp; German.
 XX CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to

CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

XX SQ Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 52;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CACCTTCTTG 12
 ||| |||||
 DB 11 CACTTCTTG 2

RESULT 117
 AAT09397/c
 ID AAT09397 standard; DNA; 8 BP.

XX AC AAT09397;

XX DT 25-MAR-2003 (revised)
 XX DT 21-JUN-1996 (first entry)

XX 5'-primer used for characterisation of human biological samples.

XX 5'-primer; human; protein coding region; PCR primer kit;
 KW characterisation; biological samples; PCR amplification; indexing;
 KW identification; cloning; analysis; genes; genome mapping;
 KW disease diagnosis; ss.

XX OS Synthetic.

XX PN WO9531574-A1.

XX PD 23-NOV-1995.

XX PF 12-MAY-1995; 95WO-US006032.

XX PR 16-MAY-1994; 94US-00242887.

XX PA (BGHM) BRIGHAM & WOMENS HOSPITAL.

XX PI Lopeznieto CE, Nigam SK;

XX DR WPI; 1996-010958/01.

XX PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.

XX PS Claim 5; Page 44; 72pp; English.

XX CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)

XX SQ Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 4.2e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CCTTCTTG 12
 ||| |||||
 DB 8 CCTTCTTG 1

RESULT 118
 AAT09546

ID AAT09546 standard; DNA; 8 BP.

XX AC AAT09546;

XX DT 25-MAR-2003 (revised)

XX DT 25-JUN-1996 (first entry)

XX 3'-primer used for characterisation of human biological samples.

XX 3'-primer; human; protein coding region; PCR primer kit;
 KW characterisation; biological samples; PCR amplification; indexing;
 KW identification; cloning; analysis; genes; genome mapping;
 KW disease diagnosis; ss.

XX OS Synthetic.

XX PN WO9531574-A1.

XX PD 23-NOV-1995.

XX PF 12-MAY-1995; 95WO-US006032.

XX PR 16-MAY-1994; 94US-00242887.

XX PA (BGHM) BRIGHAM & WOMENS HOSPITAL.

XX PI Lopeznieto CE, Nigam SK;

XX DR WPI; 1996-010958/01.

XX PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.

XX PS Disclosure; Page 19; 72pp; English.

XX CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)

XX SQ Sequence 8 BP; 0 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 4.2e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CCTTCTTG 12
 ||| |||||
 DB 1 CCTTCTTG 8

RESULT 119
 AAT09415/c

ID AAT09415 standard; DNA; 8 BP.

XX AC AAT09415;

XX DT 25-MAR-2003 (revised)

XX DT 21-JUN-1996 (first entry)

XX

DE 5'-primer used for characterisation of human biological samples.
XX
KW 5'-primer; human; protein coding region; PCR primer kit;
KW characterisation; biological samples; PCR amplification; indexing;
KW identification; cloning; analysis; genes; genome mapping;
KW disease diagnosis; ss.
XX
OS Synthetic.
XX
PN WO9531574-A1.
XX
XX 23-NOV-1995.
XX
XX 12-MAY-1995; 95WO-US006032.
XX
XX 16-MAY-1994; 94US-00242887.
XX
XX (BGHM) BRIGHAM & WOMENS HOSPITAL.
XX
XX Lopeznieto CE, Nigam SK;
XX WPI; 1996-010958/01.
XX
XX Characterisation of nucleotide sequences using primer pairs - by PCR
PT amplification and indexing of amplification prods. w.r.t. primers used
PT for genome mapping and disease diagnosis.
XX
XX Claim 5; Page 44; 72pp; English.
XX
XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
CC target human protein coding regions, together comprise a PCR primer kit
CC with 1361 possible primer pairs. The kit is used in a new method for the
CC characterisation of nucleic acid sequences obtd. from human biological
CC samples, which comprises PCR amplification and indexing of the prods.
CC w.r.t the primer pair that hybridised to its delineating subsequences.
CC The method may be used in the identification, cloning and analysis of
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
XX 2003 to correct PI field.)
XX
SQ Sequence 8 BP; 4 A; 2 C; 2 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.2e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCTTGG 13
Db |||||
8 CTTCTTGG 1

RESULT 120
AAT09568
ID AAT09568 standard; DNA; 8 BP.
XX
XX AAT09568;
XX
XX 25-MAR-2003 (revised)
DT 25-JUN-1996 (first entry)
XX
XX 3'-primer used for characterisation of human biological samples.
XX
XX 3'-primer; human; protein coding region; PCR primer kit;
KW characterisation; biological samples; PCR amplification; indexing;
KW identification; cloning; analysis; genes; genome mapping;
KW disease diagnosis; ss.
XX
OS Synthetic.
XX
XX WO9531574-A1.
PN
XX 23-NOV-1995.
XX
XX 12-MAY-1995; 95WO-US006032.
PF

XX 16-MAY-1994; 94US-00242887.
PR (BGHM) BRIGHAM & WOMENS HOSPITAL.
XX
XX Lopeznieto CE, Nigam SK;
XX WPI; 1996-010958/01.
XX
XX Characterisation of nucleotide sequences using primer pairs - by PCR
PT amplification and indexing of amplification prods. w.r.t. primers used
PT for genome mapping and disease diagnosis.
XX
XX Disclosure; Page 19; 72pp; English.
XX
XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
CC target human protein coding regions, together comprise a PCR primer kit
CC with 1361 possible primer pairs. The kit is used in a new method for the
CC characterisation of nucleic acid sequences obtd. from human biological
CC samples, which comprises PCR amplification and indexing of the prods.
CC w.r.t the primer pair that hybridised to its delineating subsequences.
CC The method may be used in the identification, cloning and analysis of
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
XX 2003 to correct PI field.)
XX
SQ Sequence 8 BP; 0 A; 2 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.2e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCTTGG 13
Db |||||
1 CTTCTTGG 8

RESULT 121
ABQ71965/C
ID ABQ71965 standard; DNA; 9 BP.
XX
XX ABQ71965;
XX
XX 28-AUG-2002 (first entry)
DT
XX Zinc finger protein related oligonucleotide target SEQ ID NO:2363.
DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
KW
XX Homo sapiens.
OS
OS Synthetic.
XX
XX WO200242459-A2.
PN
XX 30-MAY-2002.
PD
XX
XX 20-NOV-2001; 2001WO-US043438.
PF
XX
XX 20-NOV-2000; 2000US-00716637.
PR
XX (SANG-) SANGMO BIOSCIENCES INC.
PA
XX Liu Q;
PI
XX WPI; 2002-500284/53.
DR
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering, comprises
PT first, second and third zinc fingers, ordered from N- to C-terminus.
XX
XX Example 1; Page 59; 81pp; English.
PS
XX The present invention describes a zinc finger protein (I) that binds to a
CC target site, comprising a first (F1), a second (F2), and a third (F3)

CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsequence. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it
 CC binds to the S1 target subsequence, selecting the F2 zinc finger such that it
 CC binds to the S2 target subsequence, and selecting the F3 zinc finger such
 CC that it binds to the S3 target subsequence, thus designing (I) that binds to
 CC a target site. (I) is useful for recognition of triplet target subsequence
 CC having the nucleotide G in the 5'-most position of the subsequence. (I) is
 CC useful in studying gene function, and for human therapeutics and plant
 CC engineering. (I), (II) or (III) is useful in therapeutic methods to
 CC modulate the expression of a target region within a subject, in
 CC diagnostic methods for sequence specific detection of target nucleic acid
 CC in a sample, and in assays to determine the phenotype and function of
 CC target sequences. (I) has improved affinity and specificity for their
 CC target sequences, as well as enhanced biological activity. ABQ71213 to
 CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
 CC finger peptides which are given in the exemplification of the present
 CC invention
 XX
 SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 9;
 Best Local Similarity 100.0%; Pred. No. 3.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCT 10
 |||||
 Db 9 CACCTTCT 2

RESULT 122
 ABQ71964/c
 ID ABQ71964 standard; DNA; 9 BP.
 XX
 AC ABQ71964;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related oligonucleotide target SEQ ID NO:2262.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.

OS Homo sapiens.
 OS Synthetic.

XX WO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US043438.

XX 20-NOV-2000; 2000US-00716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering, comprises
 PT first, second and third zinc fingers, ordered from N- to C-terminus.

XX Example 1; Page 59; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to a
 CC target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsequence. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and

CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it
 CC binds to the S1 target subsequence, selecting the F2 zinc finger such that it
 CC binds to the S2 target subsequence, and selecting the F3 zinc finger such
 CC that it binds to the S3 target subsequence, thus designing (I) that binds to
 CC a target site. (I) is useful for recognition of triplet target subsequence
 CC having the nucleotide G in the 5'-most position of the subsequence. (I) is
 CC useful in studying gene function, and for human therapeutics and plant
 CC engineering. (I), (II) or (III) is useful in therapeutic methods to
 CC modulate the expression of a target region within a subject, in
 CC diagnostic methods for sequence specific detection of target nucleic acid
 CC in a sample, and in assays to determine the phenotype and function of
 CC target sequences. (I) has improved affinity and specificity for their
 CC target sequences, as well as enhanced biological activity. ABQ71213 to
 CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
 CC finger peptides which are given in the exemplification of the present
 CC invention
 XX

SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 9;
 Best Local Similarity 100.0%; Pred. No. 3.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCT 10
 |||||
 Db 9 CACCTTCT 2

RESULT 123
 ABQ71781/c
 ID ABQ71781 standard; DNA; 9 BP.
 XX
 AC ABQ71781;

XX 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related oligonucleotide target SEQ ID NO:2079.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.

OS Homo sapiens.
 OS Synthetic.

XX WO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US043438.

XX 20-NOV-2000; 2000US-00716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering, comprises
 PT first, second and third zinc fingers, ordered from N- to C-terminus.

XX Example 1; Page 55; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to a
 CC target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsequence. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it
 CC binds to the S1 target subsequence, selecting the F2 zinc finger such that it
 CC binds to the S2 target subsequence, and selecting the F3 zinc finger such
 CC that it binds to the S3 target subsequence, thus designing (I) that binds to

CC a target site. (I) is useful for recognition of triplet target subsites
 CC having the nucleotide G in the 5'-most position of the subsite. (I) is
 CC useful in studying gene function, and for human therapeutics and plant
 CC engineering. (I), (II) or (III) is useful in therapeutic methods to
 CC modulate the expression of a target region within a subject, in
 CC diagnostic methods for sequence specific detection of target nucleic acid
 CC in a sample, and in assays to determined the phenotype and function of
 CC gene expression. (I) has improved affinity and specificity for their
 CC target sequences, as well as enhanced biological activity. ABQ71213 to
 CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
 CC finger peptides which are given in the exemplification of the present
 CC invention
 XX
 SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 9;
 Best Local Similarity 100.0%; Pred. No. 3.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTT 8
 |||||
 Db 8 CCCACCTT 1

RESULT 124

ABQ71780/c
 ID ABQ71780 standard; DNA; 9 BP.

XX AC ABQ71780;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related oligonucleotide target SEQ ID NO:2078.

XX ZW Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US043438.

XX PR 20-NOV-2000; 2000US-00716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering, comprises
 PT first, second and third zinc fingers, ordered from N- to C-terminus.

XX PS Example 1; Page 55; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to a
 CC target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it
 CC binds to the S1 target subsite, selecting the F2 zinc finger such that it
 CC binds to the S2 target subsite, and selecting the F3 zinc finger such
 CC that it binds to the S3 target subsite, thus designing (I) that binds to
 CC a target site. (I) is useful for recognition of triplet target subsites
 CC having the nucleotide G in the 5'-most position of the subsite. (I) is
 CC useful in studying gene function, and for human therapeutics and plant
 CC engineering. (I), (II) or (III) is useful in therapeutic methods to

CC modulate the expression of a target region within a subject, in
 CC diagnostic methods for sequence specific detection of target nucleic acid
 CC in a sample, and in assays to determined the phenotype and function of
 CC gene expression. (I) has improved affinity and specificity for their
 CC target sequences, as well as enhanced biological activity. ABQ71213 to
 CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc
 CC finger peptides which are given in the exemplification of the present
 CC invention
 XX
 SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 9;
 Best Local Similarity 100.0%; Pred. No. 3.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTT 8
 |||||
 Db 8 CCCACCTT 1

RESULT 125

ACD06034
 ID ACD06034 standard; DNA; 9 BP.

XX AC ACD06034;

XX DT 05-AUG-2003 (first entry)

XX DE Human VEGF-targeted zinc finger protein target sequence #7.

XX ZW Zinc finger protein; antiarteriosclerotic; vasotropic; antiarthritic;

XX KW cytosolic; antipsoriatic; ophthalmological; antidiabetic; antitumor;

XX KW vulnary; gene therapy; vascular endothelial growth factor; VEGF;

XX KW angiogenesis; atherosclerosis; ischaemia; arthritis; tumour; psoriasis;

XX KW diabetic retinopathy; ulcer; wound; ds.

XX OS Homo sapiens.

XX PN US2003044404-A1.

XX PD 06-MAR-2003.

XX PF 30-APR-2001; 2001US-00846033.

XX PR 07-DEC-2000; 2000US-00733604.

XX PR 12-DEC-2000; 2000US-00736083.

XX PA (REBA/) REBAR E.

XX PA (JAMI/) JAMIESON A.

XX PA (LIUQ/) LIU Q.

XX PA (LIUP/) LIU P.

XX PA (WOLF/) WOLFE A.

XX PA (EISE/) EISENBERG S P.

XX PA (JARV/) JARVIS E.

XX PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;

XX PI Jarvis E;

XX DR WPI; 2003-456550/43.

XX CC New zinc finger protein that binds to a target site in the human vascular
 CC endothelial growth factor gene, useful for regulating angiogenesis, e.g.
 CC in the treatment of atherosclerosis, ischemia, arthritis, tumors, ulcer
 CC or wounds.

XX PS Example 6; Page 42; 75pp; English.

XX CC The invention describes a zinc finger protein (ZFP) that binds to a
 CC target site having a nucleotide sequence of any of the human vascular
 CC endothelial growth factor (VEGF) genes listed in the specification. The
 CC composition and methods are useful in regulating angiogenesis, such as in
 CC the treatment of atherosclerosis, ischaemia, arthritis, tumors,
 CC psoriasis, diabetic retinopathy, ulcer or wounds. The composition may

CC also be used in screening for agents capable of modulating angiogenesis,
CC and in various diagnostic applications. This sequence represents a
CC vascular endothelial growth factor (VEGF) targeting zinc finger protein
CC zinc finger domain target DNA
XX
SQ Sequence 9 BP; 2 A; 2 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 11 TGGGCAGA 18
DB 1 TGGGCAGA 8
RESULT 126
ACD19256
ID ACD19256 standard; DNA; 9 BP.
XX
AC ACD19256;
DT 22-AUG-2003 (first entry)
XX
DE Human VEGF-targeted ZFP HUM 19A target sequence.
XX
KW Zinc finger protein; vascular endothelial growth factor; VEGF; ischaemia;
KW atherosclerosis; tumour; arthritis; bone injury; wound; ulcer; surgery;
KW angiogenesis; pregnancy; embryogenesis; ds; human.
XX
OS Homo sapiens.
XX
PN US2003021776-A1.
XX
PD 30-JAN-2003.
XX
PF 06-DEC-2001; 2001US-00006069.
XX
PR 07-DEC-2000; 2000US-00733604.
PR 12-DEC-2000; 2000US-00736083.
PR 30-APR-2001; 2001US-00846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
PI Jarvis E;
XX
XX WPI; 2003-466074/44.
XX
Novel zinc finger protein that binds to a target site, useful for
PT modulating vascular endothelial growth factor gene expression, for
PT modulating angiogenesis, for wound healing and for treating ischemia.
XX
PS Disclosure; Page 43; 120pp; English.
XX
The invention relates to a zinc finger protein that binds to a target
CC site. The zinc finger protein is useful for modulating expression of a
CC vascular endothelial growth factor (VEGF) gene. The expression of a
CC number of splice variants of VEGF gene is modulated. A number of target
CC sites are contacted with a number of zinc finger proteins and each zinc
CC finger protein binds to a distinct target site. The zinc finger protein
CC is administered in combination with a delivery vehicle, or its nucleic
CC acid is administered into the cell, either in naked form or delivered in
CC an expression vector. The zinc finger protein or nucleic acid is useful
CC for treating a disease or injury such as atherosclerosis, ischaemia,
CC tumour, arthritis, bone injury, wounds and ulcer in a subject. The zinc
CC finger protein is also useful for modulating angiogenesis, by introducing
CC the zinc finger protein into an animal, where the animal has a genome
CC comprising a target site within a VEGF gene. The zinc finger protein is
CC also useful for screening for a modulator of expression of a VEGF gene.
CC The zinc finger protein and nucleic acid are also useful to promote
CC development of the corpus luteum and endometrium, which is useful for
CC initiating and/or maintaining pregnancy and for supporting embryogenesis.

CC The zinc finger protein and its nucleic acid are also useful in surgical
CC applications. The present sequence represents a human VEGF targetted zinc
CC finger protein ZFP target sequence
XX
SQ Sequence 9 BP; 2 A; 2 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 11 TGGGCAGA 18
DB 1 TGGGCAGA 8
RESULT 127
ADA64108/c
ID ADA64108 standard; DNA; 9 BP.
XX
AC ADA64108;
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #566.
XX
KW ds; target sequence; zinc finger protein;
KW multi-finger zinc finger protein; improved affinity;
KW improved specificity; enhanced biological activity.
XX
OS Synthetic.
XX
PN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126238P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
LIUQ// LIU Q.
XX
Liu Q;
XX
WPI; 2003-567233/53.
XX
Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
PS Disclosure; Page 22; 34pp; English.
XX
The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCCACCTT 8
DB 8 CCCACCTT 1

```

RESULT 128
ADA64291/c
ID ADA64291 standard; DNA; 9 BP.
XX
AC ADA64291;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #749.
XX
ds, target sequence; zinc finger protein;
KW multi-finger zinc finger protein; improved affinity;
KW improved specificity; enhanced biological activity.
XX
OS Synthetic.
XX
PN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
XX
PR 24-MAR-1999; 99US-0126239P.
XX
PR 30-JUL-1999; 99US-0146595P.
XX
PR 30-JUL-1999; 99US-0146615P.
XX
PR 23-MAR-2000; 2000US-00535008.
XX
PR 20-NOV-2000; 2000US-00716637.
XX
(LIUQ/) LIU Q.
XX
PI Liu Q;
XX
WPI; 2003-567233/53.
XX
PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
PS Disclosure; Page 24; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCT 10
Db |||||
9 CACCTTCT 2

RESULT 130
ADA64107/c
ID ADA64107 standard; DNA; 9 BP.
XX
AC ADA64107;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #565.
XX
ds, target sequence; zinc finger protein;
KW multi-finger zinc finger protein; improved affinity;
KW improved specificity; enhanced biological activity.
XX
OS Synthetic.
XX
PN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
XX
PR 24-MAR-1999; 99US-0126239P.
XX
PR 30-JUL-1999; 99US-0146595P.
XX
PR 30-JUL-1999; 99US-0146615P.
XX
PR 23-MAR-2000; 2000US-00535008.
XX
PR 20-NOV-2000; 2000US-00716637.
XX
(LIUQ/) LIU Q.
XX
PI Liu Q;
XX
WPI; 2003-567233/53.
XX
PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
PS Disclosure; Page 24; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCT 10
Db |||||
9 CACCTTCT 2

RESULT 129
ADA64292/c
ID ADA64292 standard; DNA; 9 BP.
XX
AC ADA64292;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #750.
XX
ds, target sequence; zinc finger protein;
KW multi-finger zinc finger protein; improved affinity;
KW improved specificity; enhanced biological activity.
XX
OS Synthetic.

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XX
PI
XX
XX
DR
XX
XX
PT
PT
PT
XX
PS
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XX
CC
CC
CC
CC
XX
SQ
    Liu Q;
    WPI; 2003-567233/53.
    Designing zinc finger protein that has three zinc fingers from N-terminus
    and C-terminus that bind to subsites in 3' to 5' direction, in a target
    site, by selecting zinc fingers that bind their respective subsites.
    Disclosure; Page 22; 34pp; English.
    The invention relates to a method of designing a zinc finger protein. The
    method is useful for designing a zinc finger protein. The method provides
    multi-finger zinc finger proteins with improved affinity and specificity
    for their target sequences, as well as enhanced biological activity. The
    present sequence represents a zinc finger protein DNA target sequence.
    Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;

    Query Match      40.0%; Score 8; DB 1; Length 9;
    Best Local Similarity 100.0%; Pred. No. 3.8e+02;
    Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCCACCTT 8
DB      8 CCCACCTT 1

RESULT 131
AAZ79378/c
ID      AAZ79378 standard; DNA; 10 BP.
XX
AC      AAZ79378;
XX
DT      10-APR-2000 (first entry)
XX
DE      Human dendritic cell SAGE tag, SEQ ID NO:1806.
XX
KW      SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW      APC; monocyte-derived dendritic cell; differential gene expression;
KW      immunostimulatory cofactor; costimulatory factor; CTL;
KW      cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS      Homo sapiens.
XX
PN      WO9965924-A2.
XX
PD      23-DEC-1999.
XX
PF      18-JUN-1999; 99WO-US013800.
PR      19-JUN-1998; 98US-0089833P.
PR      19-JUN-1998; 98US-0089844P.
PR      19-JUN-1998; 98US-0089853P.
PR      19-JUN-1998; 98US-0089878P.
PR      19-JUN-1998; 98US-0089911P.
PR      19-JUN-1998; 98US-0089922P.
PR      19-JUN-1998; 98US-0089933P.
PR      19-JUN-1998; 98US-0089944P.
PR      19-JUN-1998; 98US-0089977P.
PR      19-JUN-1998; 98US-0089999P.
PR      19-JUN-1998; 98US-0090000P.
PR      19-JUN-1998; 98US-0090035P.
PR      19-JUN-1998; 98US-0090036P.
PR      19-JUN-1998; 98US-0090039P.
PR      19-JUN-1998; 98US-0090040P.
PR      19-JUN-1998; 98US-0090041P.
PR      19-JUN-1998; 98US-0090042P.
PR      19-JUN-1998; 98US-0090043P.
PR      19-JUN-1998; 98US-0090044P.
PR      19-JUN-1998; 98US-0090045P.
PR      19-JUN-1998; 98US-0090047P.
PR      19-JUN-1998; 98US-0090048P.

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PR      19-JUN-1998; 98US-0090072P.
PR      19-JUN-1998; 98US-0090076P.
PR      19-JUN-1998; 98US-0090077P.
PR      19-JUN-1998; 98US-0090078P.
PR      19-JUN-1998; 98US-0090079P.
PR      19-JUN-1998; 98US-0090080P.
PR      08-DEC-1998; 98US-0111715P.
XX
PA      (GENZ ) GENZYME CORP.
PA      (ROBE/) ROBERTS B L.
PA      (SHAN/) SHANKARA S.
XX
PI      Roberts BL, Shankara S;
XX
XX      WPI; 2000-106077/09.
XX
PT      Isolated polynucleotides differentially expressed in antigen-presenting
PT      cells, useful in gene vaccines against cancer.
XX
PS      Claim 1; Page 116; 130pp; English.
XX
CC      Sequences AAZ7573-279709 represent SAGE (serial analysis of gene
CC      expression) tags used to identify mRNA transcripts encoding
CC      immunostimulatory cofactor proteins which are preferentially or
CC      differentially expressed in monocyte-derived dendritic cells compared
CC      with monocytes. Some of the transcripts correspond to known genes or ESTs
CC      (expressed sequence tags) which were previously unknown to be
CC      preferentially or differentially expressed in dendritic cells, while
CC      other transcripts correspond to novel genes. Antigen-presenting cell
CC      (APC)-associated costimulatory factors play an important role in the
CC      activation of the cytotoxic immune response, particularly against tumour
CC      cells. Tumour antigen presentation via the MHC (major histocompatibility
CC      complex) and subsequent recognition by T-cell receptors is alone
CC      insufficient to activate a robust cytotoxic immune response that can lyse
CC      the tumour cells, immunostimulatory cofactors also being required for
CC      efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC      sequences identified using the SAGE tags have several potential uses.
CC      They may be used in vaccines to induce an immune response, particularly
CC      against a tumour antigen; to modulate the genotype of an APC; to screen
CC      for agents that modulate expression of differentially expressed genes in
CC      an APC; and as hybridisation probes/amplification primers for the
CC      diagnosis, prognosis and monitoring of diseases related to abnormal
CC      expression of these genes. Detection of the dendritic cell differentially
CC      expressed genes, or of their encoded proteins, can be used to identify
CC      cells as belonging to the monocyte lineage. Cells containing these genes
CC      can be used in active immunotherapy (or to stimulate production of a
CC      population of antigen-specific effector cells) and vectors containing
CC      them are used in gene therapy. Co-administration of tumour antigens and
CC      APC-associated costimulatory factors ensures adequate antigen
CC      presentation to endogenous APCs and upregulates the APCs for the
CC      presentation of co-stimulatory signals, migration to T cell-rich sites,
CC      secretion of T cell growth factors and secretion of chemokines for
CC      recruitment of immune effector cells
XX
SQ      Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

    Query Match      40.0%; Score 8; DB 1; Length 10;
    Best Local Similarity 100.0%; Pred. No. 58;
    Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      13 GGCAGAG 20
DB      9 GGCAGAG 2

RESULT 132
AAZ77868
ID      AAZ77868 standard; DNA; 10 BP.
XX
AC      AAZ77868;
XX
XX      10-APR-2000 (first entry)
XX
XX

```

DE Human dendritic cell SAGE tag, SEQ ID NO:296.
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
OS Homo sapiens.
PN WO9965924-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013800.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX WPI; 2000-106077/09.
XX
DR Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 72; 130pp; English.
XX
CC Sequences AAZ77573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid

CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CACCTTCT 10
Db 2 CACCTTCT 9
RESULT 133
AAZ78273/c
ID AAZ78273 standard; DNA; 10 BP.
XX
AC AAZ78273;
XX
DT 10-APR-2000 (first entry)
XX Human dendritic cell SAGE tag, SEQ ID NO:701.
XX
DE SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
PN WO9965924-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013800.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.

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PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 85; 130pp; English.
XX
XX Sequences AA277573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
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CC with monocytes. Some of the transcripts correspond to known genes or ESTs
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CC against a tumour antigen; to modulate the genotype of an APC; to screen
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CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
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CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
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CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 GGCAGAAG 20
Db 9 GGCAGAAG 2
|||||
RESULT 134
AAZ78942
ID AAZ78942 standard; DNA; 10 BP.
XX
AC AAZ78942;
XX
DT 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:1370.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
XX
XX WO9965924-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
XX 19-JUN-1998; 98US-0089844P.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089878P.
XX 19-JUN-1998; 98US-0089991P.
XX 19-JUN-1998; 98US-0089992P.
XX 19-JUN-1998; 98US-0089993P.
XX 19-JUN-1998; 98US-0089994P.
XX 19-JUN-1998; 98US-0089997P.
XX 19-JUN-1998; 98US-0089999P.
XX 19-JUN-1998; 98US-0090000P.
XX 19-JUN-1998; 98US-0090035P.
XX 19-JUN-1998; 98US-0090036P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX 19-JUN-1998; 98US-0090042P.
XX 19-JUN-1998; 98US-0090043P.
XX 19-JUN-1998; 98US-0090044P.
XX 19-JUN-1998; 98US-0090045P.
XX 19-JUN-1998; 98US-0090047P.
XX 19-JUN-1998; 98US-0090048P.
XX 19-JUN-1998; 98US-0090072P.
XX 19-JUN-1998; 98US-0090076P.
XX 19-JUN-1998; 98US-0090077P.
XX 19-JUN-1998; 98US-0090078P.
XX 19-JUN-1998; 98US-0090079P.
XX 19-JUN-1998; 98US-0090080P.
XX 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
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XX Roberts BL, Shankara S;
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XX WPI; 2000-106077/09.
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XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
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 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 13 GGCAGAG 20
 Db 1 GGCAGAG 8

RESULT 135
 AAZ77770
 ID AAZ77770 standard; DNA; 10 BP.

XX AAZ77770;

DT 10-APR-2000 (first entry)

DE Human dendritic cell SAGE tag, SEQ ID NO:198.

XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX Homo sapiens.

XX WO965924-A2.

XX 23-DEC-1999.

XX 18-JUN-1999; 99WO-US013800.

XX 19-JUN-1998; 98US-0089833P.

XX 19-JUN-1998; 98US-0089844P.

XX 19-JUN-1998; 98US-0089853P.

XX 19-JUN-1998; 98US-0089878P.

XX 19-JUN-1998; 98US-0089911P.

XX 19-JUN-1998; 98US-0089922P.

XX 19-JUN-1998; 98US-0089933P.

XX 19-JUN-1998; 98US-0089944P.

XX 19-JUN-1998; 98US-0089977P.

XX 19-JUN-1998; 98US-0089999P.

XX 19-JUN-1998; 98US-0090000P.

XX 19-JUN-1998; 98US-0090035P.

XX 19-JUN-1998; 98US-0090036P.

XX 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090047P.
 PR 19-JUN-1998; 98US-0090048P.
 PR 19-JUN-1998; 98US-0090072P.
 PR 19-JUN-1998; 98US-0090076P.
 PR 19-JUN-1998; 98US-0090077P.
 PR 19-JUN-1998; 98US-0090078P.
 PR 19-JUN-1998; 98US-0090079P.
 PR 19-JUN-1998; 98US-0090080P.
 PR 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.

PI Roberts BL, Shankara S;

XX WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting
 PT cells, useful in gene vaccines against cancer.

XX Claim 1; Page 69; 130pp; English.

PS Sequences AAZ77573-Z79709 represent SAGE (serial analysis of gene
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SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 12 GGCAGAG 19
 Db 1 GGCAGAG 8

RESULT 136
 AAZ77870
 ID AAZ77870 standard; DNA; 10 BP.

XX AAZ77870;

XX

DT 10-APR-2000 (first entry)
 XX Human dendritic cell SAGE tag, SEQ ID NO:298.
 DE
 XX
 XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 XX Homo sapiens.
 XX
 XX WO9965924-A2.
 XX
 XX 23-DEC-1999.
 XX
 XX 18-JUN-1999; 99WO-US013800.
 XX
 PR 19-JUN-1998; 98US-0089833P.
 PR 19-JUN-1998; 98US-0089844P.
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089878P.
 PR 19-JUN-1998; 98US-0089911P.
 PR 19-JUN-1998; 98US-0089922P.
 PR 19-JUN-1998; 98US-0089933P.
 PR 19-JUN-1998; 98US-0089944P.
 PR 19-JUN-1998; 98US-0089977P.
 PR 19-JUN-1998; 98US-0089999P.
 PR 19-JUN-1998; 98US-0090000P.
 PR 19-JUN-1998; 98US-0090035P.
 PR 19-JUN-1998; 98US-0090036P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
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 PR 19-JUN-1998; 98US-0090043P.
 PR 19-JUN-1998; 98US-0090044P.
 PR 19-JUN-1998; 98US-0090045P.
 PR 19-JUN-1998; 98US-0090047P.
 PR 19-JUN-1998; 98US-0090048P.
 PR 19-JUN-1998; 98US-0090072P.
 PR 19-JUN-1998; 98US-0090076P.
 PR 19-JUN-1998; 98US-0090077P.
 PR 19-JUN-1998; 98US-0090078P.
 PR 19-JUN-1998; 98US-0090079P.
 PR 19-JUN-1998; 98US-0090080P.
 PR 08-DEC-1998; 98US-0111715P.
 XX
 XX (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
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 PI Roberts BL, Shankara S;
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 XX WPI; 2000-106077/09.
 XX
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 PT
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 XX Claim 1; Page 72; 130pp; English.
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 SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58; Mismatches 0; Gaps 0;
 Matches 8; Conservative 0; Indels 0; Gaps 0;
 QY 1 CCCACCTT 8
 Db 3 CCCACCTT 10
 |||||
 RESULT 137
 AA279364
 ID AA279364 standard; DNA; 10 BP.
 XX
 AC AA279364;
 XX
 DT 10-APR-2000 (first entry)
 XX
 DE Human dendritic cell SAGE tag, SEQ ID NO:1792.
 XX
 KW SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 XX Homo sapiens.
 XX
 XX WO9965924-A2.
 XX
 XX 23-DEC-1999.
 XX
 XX 18-JUN-1999; 99WO-US013800.
 XX
 PR 19-JUN-1998; 98US-0089833P.
 PR 19-JUN-1998; 98US-0089844P.
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089878P.
 PR 19-JUN-1998; 98US-0089911P.
 PR 19-JUN-1998; 98US-0089922P.
 PR 19-JUN-1998; 98US-0089933P.
 PR 19-JUN-1998; 98US-0089944P.
 PR 19-JUN-1998; 98US-0089977P.
 PR 19-JUN-1998; 98US-0089999P.
 PR 19-JUN-1998; 98US-0090000P.
 PR 19-JUN-1998; 98US-0090035P.
 PR 19-JUN-1998; 98US-0090036P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090042P.
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 PR 19-JUN-1998; 98US-0090072P.
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 PR 19-JUN-1998; 98US-0090080P.
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 XX (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
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 XX WPI; 2000-106077/09.
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PR 19-JUN-1998; 98US-0090045P.
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 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CTTCTCTG 12
 |||||
 Db 1 CTTCTCTG 8
 RESULT 138
 AAZ79551/c
 ID AAZ79551 standard; DNA; 10 BP.
 XX
 AC AAZ79551;

XX 10-APR-2000 (first entry)
 DT Human dendritic cell SAGE tag, SEQ ID NO:1979.
 DE
 XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
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 PF 18-JUN-1999; 99WO-US013800.
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 CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially
 CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes
 CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing
 CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen
 CC presentation to endogenous APCs and upregulates the APCs for the
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,
 CC recruitment of T cell growth factors and secretion of chemokines for
 CC secretment of immune effector cells
 XX
 SQ Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTC 9
 Db 9 CCACCTTC 2
 |||||
 |||||
 RESULT 139
 AAZ83134
 ID AAZ83134 standard; DNA; 10 BP.
 XX
 AC AAZ83134;
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2368.
 XX
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 XX Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 123; 219pp; English.

XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 13 GCGCAGAG 20
 Db 3 GCGCAGAG 10
 |||||
 |||||
 RESULT 140
 AAZ81919
 ID AAZ81919 standard; DNA; 10 BP.
 XX
 AC AAZ81919;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #1153.
 XX
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 XX Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX

XX
PS Claim 1; Page 89; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 1 A; 1 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TTCTTGGG 14
| | | | |
Db 1 TTCTTGGG 8

RESULT 141
AAZ84193/c
ID AAZ84193 standard; DNA; 10 BP.
XX
AC AAZ84193;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #3427.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and

PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 150; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCCACCTT 8
| | | | |
Db 10 CCCACCTT 3

RESULT 142
AAZ82122/c
ID AAZ82122 standard; DNA; 10 BP.
XX
AC AAZ82122;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #1356.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.

XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 95; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
XX Sequence 10 BP; 0 A; 6 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 GGCAGAAG 20
Db 10 GGCAGAAG 3
|||||

RESULT 143
AAZ83647
ID AAZ83647 standard; DNA; 10 BP.

XX
XX AAZ83647;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #2881.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
OS
XX WO9965928-A2.
PN
XX
XX 23-DEC-1999.
PD
XX
XX 18-JUN-1999; 99WO-US013647.
PF
XX
XX 19-JUN-1998; 98US-0089853P.
PR
XX 19-JUN-1998; 98US-0089997P.
PR
XX 19-JUN-1998; 98US-0090039P.
PR
XX 19-JUN-1998; 98US-0090040P.
PR
XX 19-JUN-1998; 98US-0090041P.
PR
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI

XX WPI; 2000-106079/09.
DR Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
PT
XX
XX Claim 1; Page 136; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CACCTTCT 10
Db 2 CACCTTCT 9
|||||

RESULT 144
AAZ83418
ID AAZ83418 standard; DNA; 10 BP.

XX
XX AAZ83418;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #2652.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
OS
XX WO9965928-A2.
PN
XX
XX 23-DEC-1999.
PD
XX
XX 18-JUN-1999; 99WO-US013647.
PF
XX
XX 19-JUN-1998; 98US-0089853P.
PR
XX 19-JUN-1998; 98US-0089997P.
PR
XX 19-JUN-1998; 98US-0090039P.
PR
XX 19-JUN-1998; 98US-0090040P.
PR
XX 19-JUN-1998; 98US-0090041P.
PR
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI

XX Roberts BL, Shankara S;
 XX WPI; 2000-106079/09.
 XX Isolated polynucleotides differentially expressed between metastatic and
 XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
 XX treatment of cancer.
 XX Claim 1; Page 130; 219pp; English.
 XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 XX that are preferentially transcribed in the metastatic breast tumour
 XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 XX to AAZ86677 represent tags corresponding to distinct transcripts that are
 XX preferentially transcribed in the primary or non-metastatic breast tumour
 XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
 XX transcripts can be used for diagnosis, prognosis, monitoring and
 XX treatment of breast cancer, particularly where metastatic. Diagnosis is
 XX by standard immunoassays or hybridisation/amplification reactions.
 XX Compounds that modulate expression of the transcripts are potentially
 XX useful for treatment of (metastatic) breast cancer, while promoters from
 XX the transcripts are used to direct expression, in selected cell types, of
 XX e.g. therapeutic genes (also ribozymes or antisense sequences),
 XX particularly an antigen-encoding sequence for use in gene or cell-based
 XX vaccines. Polypeptides encoded by the transcripts are also useful in
 XX vaccines; for diagnosing breast cancer and for raising specific
 XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 XX agents. Host cells that produce the polypeptides can be used to expand
 XX and isolate populations of educated, antigen-specific immune effector
 XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 XX immunotherapy
 XX SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 59;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 12 GGSCAGAA 19
 Db 2 GGSCAGAA 9
 RESULT 145
 AAZ82784/c
 ID AAZ82784 standard; DNA; 10 BP.
 XX AAZ82784;
 AC AAZ82784;
 XX 07-APR-2000 (first entry)
 DT Metastatic breast tumour cell upregulated transcript tag #2018.
 DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 XX non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX Homo sapiens.
 OS WO9965928-A2.
 XX WO9965928-A2.
 XX 23-DEC-1999.
 PD 18-JUN-1999; 99WO-US013647.
 XX 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX Roberts BL, Shankara S;
 XX WPI; 2000-106079/09.
 XX Isolated polynucleotides differentially expressed between metastatic and
 XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
 XX treatment of cancer.
 XX Claim 1; Page 113; 219pp; English.
 XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 XX that are preferentially transcribed in the metastatic breast tumour
 XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 XX to AAZ86677 represent tags corresponding to distinct transcripts that are
 XX preferentially transcribed in the primary or non-metastatic breast tumour
 XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
 XX transcripts can be used for diagnosis, prognosis, monitoring and
 XX treatment of breast cancer, particularly where metastatic. Diagnosis is
 XX by standard immunoassays or hybridisation/amplification reactions.
 XX Compounds that modulate expression of the transcripts are potentially
 XX useful for treatment of (metastatic) breast cancer, while promoters from
 XX the transcripts are used to direct expression, in selected cell types, of
 XX e.g. therapeutic genes (also ribozymes or antisense sequences),
 XX particularly an antigen-encoding sequence for use in gene or cell-based
 XX vaccines. Polypeptides encoded by the transcripts are also useful in
 XX vaccines; for diagnosing breast cancer and for raising specific
 XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 XX agents. Host cells that produce the polypeptides can be used to expand
 XX and isolate populations of educated, antigen-specific immune effector
 XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 XX immunotherapy
 XX SQ Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTC 9
 Db 10 CCACCTTC 3
 RESULT 146
 AAZ85883
 ID AAZ85883 standard; DNA; 10 BP.
 XX AAZ85883;
 AC AAZ85883;
 XX 07-APR-2000 (first entry)
 DT Metastatic breast tumour cell downregulated transcript tag #5117.
 DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 XX non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX Homo sapiens.
 OS WO9965928-A2.
 XX WO9965928-A2.
 XX 23-DEC-1999.
 PD 18-JUN-1999; 99WO-US013647.
 XX 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.

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XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 194; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
XX Sequence 10 BP; 1 A; 5 C; 0 G; 4 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 CCACCTTC 9
Db 3 CCACCTTC 10
RESULT 147
AAZ86535/C
ID AAZ86535 standard; DNA; 10 BP.
XX
XX AAZ86535;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell downregulated transcript tag #5769.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9965928-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.

19-JUN-1998; 98US-0090040P.
19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 210; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
XX Sequence 10 BP; 2 A; 0 C; 5 G; 3 T; 0 U; 0 Other;
SQ
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 CCACCTTC 9
Db 9 CCACCTTC 2
RESULT 148
AAZ81064/C
ID AAZ81064 standard; DNA; 10 BP.
XX
XX AAZ81064;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #298.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9965928-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.
PR 19-JUN-1998; 98US-0089853P.

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PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX
XX Claim 1; Page 66; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX agents. Host cells that produce the polypeptides or as therapeutic
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX
XX Sequence 10 BP; 3 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CCACCTTC 9
DB 9 CCACCTTC 2
RESULT 149
AAZ83296/C
ID AAZ83296 standard; DNA; 10 BP.
XX
XX AAZ83296;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #2530.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; Gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9965928-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.

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XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX
XX Claim 1; Page 127; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX agents. Host cells that produce the polypeptides or as therapeutic
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX
XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 GGCAGAG 20
DB 9 GGCAGAG 2
RESULT 150
AAZ84897/C
ID AAZ84897 standard; DNA; 10 BP.
XX
XX AAZ84897;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell downregulated transcript tag #4131.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9965928-A2.
XX
XX 23-DEC-1999.

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XX 18-JUN-1999; 99WO-US013647.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089997P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX Claim 1; Page 169; 219pp; English.
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX agents. Host cells that produce the polypeptides can be used to expand
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;
SQ Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CACCTTCT 10
Db 10 CACCTTCT 3
RESULT 151
AAZ81128
ID AAZ81128 standard; DNA; 10 BP.
XX AAZ81128;
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell upregulated transcript tag #362.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; sg.
XX Homo sapiens.
XX WO9965928-A2.

XX 23-DEC-1999.
XX 18-JUN-1999; 99WO-US013647.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089997P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX Roberts BL, Shankara S;
XX WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX Claim 1; Page 67; 219pp; English.
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX agents. Host cells that produce the polypeptides can be used to expand
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;
SQ Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 12 GGGCAGAA 19
Db 1 GGGCAGAA 8
RESULT 152
AAZ83682/C
ID AAZ83682 standard; DNA; 10 BP.
XX AAZ83682;
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell upregulated transcript tag #2916.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; sg.
XX Homo sapiens.

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XX PN WO9965928-A2.
XX PD 23-DEC-1999.
XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PA (GENZ ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX PI WPI; 2000-106079/09.
XX DR
XX PT Isolated polynucleotides differentially expressed between metastatic and
XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX PT treatment of cancer.
XX PS Claim 1; Page 137; 219pp; English.
XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX CC that are preferentially transcribed in the metastatic breast tumour
XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX CC preferentially transcribed in the primary or non-metastatic breast tumour
XX CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX CC transcripts can be used for diagnosis, prognosis, monitoring and
XX CC treatment of breast cancer, particularly where metastatic. Diagnosis is
XX CC by standard immunoassays or hybridisation/amplification reactions.
XX CC Compounds that modulate expression of the transcripts are potentially
XX CC useful for treatment of (metastatic) breast cancer, while promoters from
XX CC the transcripts are used to direct expression, in selected cell types, of
XX CC e.g. therapeutic genes (also ribozymes or antisense sequences),
XX CC vaccines. Polypeptides encoded by the transcripts are also useful in
XX CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX CC agents. Host cells that produce the polypeptides can be used to expand
XX CC and isolate populations of educated, antigen-specific immune effector
XX CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX CC immunotherapy
XX SQ Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CCACCTTC 9
Db 8 CCACCTTC 1
RESULT 153
AAZ83851/c
ID AAZ83851 standard; DNA; 10 BP.
XX AC AAZ83851;
XX AC AAZ83851;
XX DT 07-APR-2000 (first entry)
XX DE Metastatic breast tumour cell upregulated transcript tag #3085.
XX DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX KW non-metastatic breast tumour tissue; gene therapy; anticancer;
XX KW antimetastatic; vaccine; diagnosis; ss.

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XX OS Homo sapiens.
XX PN WO9965928-A2.
XX PD 23-DEC-1999.
XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PA (GENZ ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX PI WPI; 2000-106079/09.
XX DR
XX PT Isolated polynucleotides differentially expressed between metastatic and
XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX PT treatment of cancer.
XX PS Claim 1; Page 141; 219pp; English.
XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX CC that are preferentially transcribed in the metastatic breast tumour
XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX CC preferentially transcribed in the primary or non-metastatic breast tumour
XX CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX CC transcripts can be used for diagnosis, prognosis, monitoring and
XX CC treatment of breast cancer, particularly where metastatic. Diagnosis is
XX CC by standard immunoassays or hybridisation/amplification reactions.
XX CC Compounds that modulate expression of the transcripts are potentially
XX CC useful for treatment of (metastatic) breast cancer, while promoters from
XX CC the transcripts are used to direct expression, in selected cell types, of
XX CC e.g. therapeutic genes (also ribozymes or antisense sequences),
XX CC vaccines. Polypeptides encoded by the transcripts are also useful in
XX CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX CC agents. Host cells that produce the polypeptides can be used to expand
XX CC and isolate populations of educated, antigen-specific immune effector
XX CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX CC immunotherapy
XX SQ Sequence 10 BP; 0 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 12 GGGCAGAA 19
Db 8 GGGCAGAA 1
RESULT 154
AAZ79914
ID AAZ79914 standard; DNA; 10 BP.
XX AC AAZ79914;
XX AC AAZ79914;
XX DT 10-APR-2000 (first entry)
XX DE Human dendritic cell preferentially expressed SAGE tag, SEQ ID NO:205.
XX KW SAGE tag; serial analysis of gene expression; diagnosis;

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KW differential gene expression; characterisation; targeted expression;
 KW tumour; cancer; immunotherapy; ss.
 XX Homo sapiens.

XX WO9966303-A2.

PN 23-DEC-1999.

PD 17-JUN-1999; 99WO-US013820.

XX 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-008991P.

PR 19-JUN-1998; 98US-008992P.

PR 19-JUN-1998; 98US-008993P.

PR 19-JUN-1998; 98US-008994P.

PR 19-JUN-1998; 98US-008997P.

PR 19-JUN-1998; 98US-008999P.

PR 19-JUN-1998; 98US-009000P.

PR 19-JUN-1998; 98US-009003P.

PR 19-JUN-1998; 98US-009003P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

XX sequence encoding an antigen. Such a construct could be transduced into
 CC APCs and would be useful for inducing an immune response by educating
 CC immune effector cells in vivo, or in cancer immunotherapy

XX Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACCTT 8
 DB 3 CCCACCTT 10

RESULT 155
 AAH64317/C

ID AAH64317 standard; cDNA; 10 BP.

XX AAH64317;

XX 20-SEP-2001 (first entry)

XX Human ubiquitously expressed transcriptome sequence SEQ ID NO: 1157.

DE Human; transcriptome; gene expression pattern; cancer; drug screening;
 KW cancer diagnosis; cell specific gene expression; ss.

XX Homo sapiens.

XX WO200138577-A2.

XX 31-MAY-2001.

XX 21-NOV-2000; 2000WO-US031922.

XX 24-NOV-1999; 99US-00448480.

XX (UWJO) UNIV JOHNS HOPKINS.

XX Velculescu VE, Vogelstein B, Kinzler KW;

XX WPI; 2001-367706/38.

XX New isolated polynucleotides, useful for identifying specific cell type,
 PT such as cancer cell, comprises transcripts expressed in particular
 PT cell types.

XX Claim 13; Page 65; 94pp; English.

XX The present invention describes a method of identifying the type of cell
 CC in a sample, involving determining which of the sequences AAH63161-
 CC AAH64724 is expressed by the cell. The transcripts described in the
 CC invention are cell-type specific, cancer specific or ubiquitously
 CC expressed in humans. They can also be used to screen for drugs, reduce
 CC cancer specific gene expression, standardise expression and restore the
 CC function of a diseased cell or tissue. The present sequence is one of the
 CC transcripts described in the exemplification of the invention

XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CACCTTCT 10
 DB 10 CACCTTCT 3

RESULT 156
 AAH63292

ID AAH63292 standard; cDNA; 10 BP.

XX sequence encoding an immunostimulatory molecule and a
 CC dendritic cells (antigen-presenting cells, or APCs), may be operably
 CC linked to a sequence encoding an immunostimulatory molecule and a

XX (GENZ) GENZYME CORP.

XX (ROBE/) ROBERTS B L.

XX (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

XX WPI; 2000-106132/09.

XX New polynucleotide useful in cancer immunotherapy.

XX Claim 1; Page 63; 97pp; English.

XX Sequences AAZ79710-279916 represent SAGE (serial analysis of gene
 CC expression) tags used to identify mRNA transcripts which are
 CC differentially expressed in a variety of normal or malignant cell types.

CC Some of the transcripts correspond to known genes or ESTs (expressed
 CC sequence tags) which were previously unknown to be preferentially or
 CC differentially expressed in that particular cell type, while other
 CC transcripts correspond to novel genes. The invention also provides a
 CC nucleotide comprising a promoter sequence derived from one of the
 CC differentially expressed genes, which may optionally be operably linked
 CC to a foreign nucleotide sequence, and gene delivery vehicles and host
 CC cells comprising the polynucleotides of the invention. A nucleotide
 CC comprising sequences AAZ79710-279916 may be used in diagnostic procedures
 CC to characterise a cell of a specific tissue type and to determine whether
 CC it is normal or malignant. They may be used to screen for agents that
 CC modulate expression of differentially expressed genes compound. The
 CC promoter/foreign gene construct of the invention may be used for
 CC targeted expression of the foreign gene in a particular cell type. For
 CC example, a promoter derived from a gene preferentially expressed in
 CC dendritic cells (antigen-presenting cells, or APCs), may be operably
 CC linked to a sequence encoding an immunostimulatory molecule and a

XX AC AAH63292;
 XX XX
 XX DT 20-SEP-2001 (first entry)
 XX DE Human colon epithelium specific transcriptome sequence SEQ ID NO: 132.
 XX KW Human; transcriptome; gene expression pattern; cancer; drug screening;
 XX KW cancer diagnosis; cell specific gene expression; ss.
 XX OS Homo sapiens.
 XX XX
 XX PN WO200138577-A2.
 XX XX
 XX PD 31-MAY-2001.
 XX XX
 XX PF 21-NOV-2000; 2000WO-US031922.
 XX XX
 XX PR 24-NOV-1999; 99US-00448480.
 XX XX
 XX PA (UYJO) UNIV JOHNS HOPKINS.
 XX XX
 XX PI Velculescu VE, Vogelstein B, Kinzler KW;
 XX XX
 XX DR WPI; 2001-367706/38.
 XX XX
 XX PT New isolated polynucleotides, useful for identifying specific cell type,
 XX PT such as cancer cell, comprises transcriptomes expressed in particular
 XX PT cell types.
 XX XX
 XX PS Claim 11; Page 42; 94pp; English.
 XX XX
 XX CC The present invention describes a method of identifying the type of cell
 XX CC in a sample, involving determining which of the sequences AAH63161-
 XX CC AAH64724 is expressed by the cell. The transcriptomes described in the
 XX CC invention are cell-type specific, cancer specific or ubiquitously
 XX CC expressed in humans. They can also be used to screen for drugs, reduce
 XX CC cancer specific gene expression, standardise expression and restore the
 XX CC function of a diseased cell or tissue. The present sequence is one of the
 XX CC transcriptomes described in the exemplification of the invention
 XX CC
 XX SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;
 XX
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CCTTCTTG 12
 Db 1 CCTTCTTG 8
 RESULT 157
 AAF69638/C
 ID AAF69638 standard; DNA; 10 BP.
 XX AC
 XX AC AAF69638;
 XX XX
 XX DT 18-APR-2001 (first entry)
 XX XX
 XX DE Human IL4Ralpha gene probe #278.
 XX XX
 XX KW Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;
 XX KW allergic disease; probe; ss.
 XX XX
 XX OS Homo sapiens.
 XX XX
 XX PN WO200104270-A1.
 XX XX
 XX PD 18-JAN-2001.
 XX XX
 XX PF 13-JUL-2000; 2000WO-US019094.
 XX XX

PR 13-JUL-1999; 99US-0143435P.
 XX XX
 XX PA (GENA-) GENAISANCE PHARM INC.
 XX XX
 XX PI Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
 XX PI Windemuth AK;
 XX XX
 XX DR WPI; 2001-103078/11.
 XX XX
 XX PT New isolated polynucleotide useful for the identification of therapeutics
 XX PT in allergic diseases is new.
 XX XX
 XX PS Disclosure; Page 46; 188pp; English.
 XX XX
 XX CC The present invention relates to polymorphisms of the human interleukin 4
 XX CC receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference
 XX CC sequence). Polynucleotides comprising polymorphic gene variants are
 XX CC useful for therapeutic purposes. For example, where a patient may benefit
 XX CC from expression of a particular IL4Ralpha protein isoform, an expression
 XX CC vector encoding the isoform may be administered to the patient. It may
 XX CC desirable to decrease or block expression of a particular IL4Ralpha
 XX CC isogene, which may be done by turning off by transforming a targeted
 XX CC organ, tissue or cell population with an expression vector that expresses
 XX CC high levels of untranslatable mRNA for the isogene. Specific therapeutics
 XX CC identified by these methods may be useful for allergic diseases. The
 XX CC present sequence is a probe for human IL4R-alpha
 XX XX
 XX SQ Sequence 10 BP; 2 A; 2 C; 5 G; 1 T; 0 U; 0 Other;
 XX
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CCACCTTC 9
 Db 10 CCACCTTC 3
 RESULT 158
 AAF35751/C
 ID AAF35751 standard; DNA; 10 BP.
 XX AC
 XX AC AAF35751;
 XX XX
 XX DT 23-MAR-2001 (first entry)
 XX XX
 XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2490.
 XX XX
 XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 XX KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 XX KW serial analysis of gene expression; antifungal; tag; identification;
 XX KW linker; PCR primer; ds.
 XX XX
 XX OS Saccharomyces cerevisiae.
 XX XX
 XX PN WO200077214-A2.
 XX XX
 XX PD 21-DEC-2000.
 XX XX
 XX PF 14-JUN-2000; 2000WO-US016223.
 XX XX
 XX PR 16-JUN-1999; 99US-00335032.
 XX XX
 XX PA (UYJO) UNIV JOHNS HOPKINS.
 XX XX
 XX PI Velculescu V, Vogelstein B, Kinzler K;
 XX XX
 XX DR WPI; 2001-061874/07.
 XX XX
 XX PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 XX PT gene expression (SAGE) tags, useful for studying, monitoring and
 XX PT affecting phases of the cell cycle.


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PS Example; Page 88; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 4 A; 0 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ACCTTCTT 11
Db 8 ACCTTCTT 1
|||||||

RESULT 159
AAF39472
ID AAF39472 standard; DNA; 10 BP.
AC AAF39472;
XX
XX 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6211.
XX
KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velulescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of

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PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 221; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 1 A; 2 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCTTGG 13
Db 2 CTTCTTGG 9
|||||||

RESULT 160
AAF39102
ID AAF39102 standard; DNA; 10 BP.
XX
XX AAF39102;
XX
XX 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5841.
XX
KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velulescu V, Vogelstein B, Kinzler K;
XX PI
XX

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DR WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of

PT gene expression (SAGE) tags, useful for studying, monitoring and

PT affecting phases of the cell cycle.

XX Example; Page 208; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a

CC coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression

CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression

CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a

CC class of drugs having a characteristic effect on gene expression in a

CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose

CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The

CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention

XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

SQ Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 58;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 TTGGGCAG 17

Db 3 TTGGGCAG 10

RESULT 161

AAF41579

ID AAF41579 standard; DNA; 10 BP.

XX AAF41579;

AC AAF41579;

XX 23-MAR-2001 (first entry)

DT Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8318.

DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KW nor previously assigned open reading frame; nonannotated ORF; SAGE;

KW serial analysis of gene expression; antifungal; tag; identification;

KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

OS Saccharomyces cerevisiae.

XX WO200077214-A2.

PN 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYSO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

PI WPI; 2001-061874/07.

DR Yeast gene coding sequences comprising NORF genes with serial analysis of

XX gene expression (SAGE) tags, useful for studying, monitoring and

XX affecting phases of the cell cycle.

XX Example; Page 297; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a

CC coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression

CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression

CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a

CC class of drugs having a characteristic effect on gene expression in a

CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose

CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The

CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention

XX Sequence 10 BP; 0 A; 3 C; 3 G; 4 T; 0 U; 0 Other;

SQ Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 58;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCTTGG 13

Db 1 CTTCTTGG 8

RESULT 162

AAF43940/C

ID AAF43940 standard; DNA; 10 BP.

XX AAF43940;

AC AAF43940;

XX 23-MAR-2001 (first entry)

DT Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:12079.

DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KW nor previously assigned open reading frame; nonannotated ORF; SAGE;

KW serial analysis of gene expression; antifungal; tag; identification;

KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

OS Saccharomyces cerevisiae.

XX WO200077214-A2.

PN 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

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PR 16-JUN-1999; 99US-00335032.
XX (UYJO ) UNIV JOHNS HOPKINS.
PA Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
DR Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX Example; Page 381; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF4064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX Sequence 10 BP; 0 A; 5 C; 1 G; 4 T; 0 U; 0 Other;
SQ Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 12 GGGCAGAA 19
Db |||||
9 GGGCAGAA 2
RESULT 163
AAF34735/c
ID AAF34735 standard; DNA; 10 BP.
XX AAF34735;
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1474.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX WO200077214-A2.
XX 21-DEC-2000.
XX
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XX 14-JUN-2000; 2000WO-US016223.
XX PF coding sequence of a yeast gene selected from a group of 745 NORF (not
XX PR previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF4064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;
SQ Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 CCTTCTTG 12
Db |||||
9 CCTTCTTG 2
RESULT 164
AAF34229/c
ID AAF34229 standard; DNA; 10 BP.
XX AAF34229;
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:968.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX
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PN WO200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000WO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX Velulescu V, Vogelstein B, Kinzler K;
 XX WPI; 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 34; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
 SQ Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 CACCTTCT 10
 Db 10 CACCTTCT 3
 RESULT 165
 AAF37328/c
 ID AAF37328 standard; DNA; 10 BP.
 XX AAF37328;
 AC AAF37328;
 XX 23-MAR-2001 (first entry)
 DT Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4067.
 DE Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.
 OS WO200077214-A2.
 PN 21-DEC-2000.
 XX 14-JUN-2000; 2000WO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX Velulescu V, Vogelstein B, Kinzler K;
 XX WPI; 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 145; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
 SQ Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 58;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CCTTCTTG 12
 Db 8 CCTTCTTG 1
 RESULT 166
 ABK24258/c
 ID ABK24258 standard; DNA; 10 BP.
 XX ABK24258;
 AC ABK24258;
 XX 09-APR-2002 (first entry)
 DT Retinaldehyde-binding protein 1 ASO primer extension primer #31.
 DE Human; retinaldehyde-binding protein 1; ss; RLBPI; haplotype; primer;
 KW

KW genotyping; probe; autosomal recessive retinitis pigmentosa; arRP; PCR;
KW chromosome 15q26; transgenic; ASO; allele specific oligonucleotide.
XX Homo sapiens.
XX WO200192278-A2.
XX 06-DEC-2001.
XX 29-MAY-2001; 2001WO-US017252.
XX 26-MAY-2000; 2000US-0207618P.
XX (GENA-) GENAISANCE PHARM INC.
XX Choi JY, Kazemi A, Koshy B;
XX WPI; 2002-122053/16.
XX New genetic variants having polymorphisms in the retinaldehyde-binding
PT protein 1 gene, useful for studying the function of and for expressing
PT RLBPI protein for use in screening drugs for treating diseases related to
PT RLBPI activity.
XX Claim 18; Page 14; 107pp; English.
XX The invention relates to an isolated polynucleotide, which comprises
CC genes and haplotypes of the retinaldehyde-binding protein 1 (RLBPI) gene.
CC The polynucleotide comprises polymorphic sites in the RLBPI gene, which
CC are referred to as PSI-24 to designate the order in which they are
CC located in the gene. Also included are methods for haplotyping or
CC genotyping the RLBPI gene of an individual, a method for predicting a
CC haplotype pair for the RLBPI gene of an individual, a method for
CC identifying an association between a trait and at least one haplotype or
CC haplotype pair of the RLBPI gene, a composition comprising at least one
CC genotyping oligonucleotide for detecting a polymorphism in the RLBPI gene
CC at a PS consisting of PSI-PS24, a kit for genotyping the RLBPI gene of an
CC individual comprising a set of oligonucleotides designed to genotype each
CC of PSI-PS24 recombinant non-human organisms transformed or transfected
CC with the isolated polynucleotide, where the organism expresses a RLBPI
CC protein encoded by the first nucleotide sequence or expresses an RLBPI
CC protein encoded by the polymorphic variant sequence, an isolated
CC polypeptide comprising an amino acid sequence that is a polymorphic
CC variant of a reference sequence for the RLBPI protein or its fragment, an
CC anti-RLBPI antibody, a method for screening for drugs targeting the
CC isolated polypeptide, and a computer system for storing and analysing
CC polymorphism data for the RLBPI oncogene gene. The polynucleotide
CC comprising polymorphisms in the RLBPI gene is useful in studying the
CC expression and function of RLBPI, and in expressing RLBPI protein for use
CC in screening candidate drugs to treat diseases related to RLBPI activity
CC (e.g. autosomal recessive retinitis pigmentosa (arRP)). The methods and
CC haplotypes are useful in improving the efficiency and output of several
CC steps in the drug discovery and development process, including target
CC validation, identifying lead compounds, and early phase clinical trials.
CC These are also useful for designing clinical trials of candidate drugs
CC for treating a specific condition or disease, as well as for screening
CC compounds targeting RLBPI to treat a specific condition or disease
CC predicted to be associated with RLBPI activity. The kit and method are
CC useful for determining whether an individual has one of the haplotypes or
CC haplotype pairs cited above. The transgenic animals are useful for
CC studying expression of the RLBPI isogenes in vivo, for in vivo screening
CC and testing of drugs targeted against RLBPI protein, and for testing the
CC efficacy of therapeutic agents and compounds for retinal diseases in a
CC biological system. The gene for RLBPI is located on chromosome 15q26. The
CC present sequence is an allele specific oligonucleotide (ASO) PCR primer
CC for amplifying a nucleic acid containing a polymorphic RLBPI sequence,
XX using the primer extension method
XX Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TCTTGGGC 15
DB 8 TCTTGGGC 1
RESULT 167
ABK23697/c
ID ABK23697 standard; DNA; 10 BP.
XX AC ABK23697;
XX DT 09-APR-2002 (first entry)
XX DE Transcript tag DNA sequence #286 induced or suppressed by N-myc.
XX KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
XX KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
XX KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
XX OS Homo sapiens.
XX PN WO200185941-A2.
XX PD 15-NOV-2001.
XX PF 11-MAY-2001; 2001WO-NL000361.
XX PR 11-MAY-2000; 2000EP-00201698.
XX PR 29-JUN-2000; 2000EP-00202284.
XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
XX PI Verateeg R, Caron HN;
XX DR WPI; 2002-066603/09.
XX A new nucleic acid library of myc-dependent downstream genes capable of
PT supporting a neoplastic characteristic of cancer is useful to find new
PT therapies and diagnoses for cancer.
XX Disclosure; Page 57; 69pp; English.
XX The present invention relates to a nucleic acid library comprising myc-
CC dependent downstream genes or their functional fragments essentially
CC capable of supporting a neoplastic character of cancer such as growth,
CC invasion or spread. These myc target or tag sequences are identified by
CC SAGE (serial analysis of gene expression). The library is also useful to
CC new diagnoses and treatments for cancer. The invention is also useful to
CC enhance production of recombinant proteins in a production system with
CC high expression of endogenous or transfected myc oncogenes. ABK23412-
CC ABK23828 represent transcript tag DNA sequences that are activated or
CC repressed by N-myc in human neuroblastoma
XX Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
SQ Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 GGCAGAG 20
DB 9 GGCAGAG 2
RESULT 168
AAS16818
ID AAS16818 standard; DNA; 10 BP.
XX AC AAS16818;
XX DT 14-FEB-2002 (first entry)
XX

DE Human apolipoprotein C1 (APOC1) gene PCR primer #4.
KW Human; apolipoprotein C1; APOC1; single nucleotide polymorphism;
KW haplotyping; haplotype pair; hypercholesterolemia; noctropic; SDAT; ss;
KW senile dementia of Alzheimer's type; neuroprotective; antilipaemic;
KW PCR primer.
XX
OS Homo sapiens.
XX
XX WO200177129-A2.
PN
XX 18-OCT-2001.
XX
FD
XX 10-APR-2001; 2001WO-US011808.
PF
XX 11-APR-2000; 2000US-0196545P.
XX
PR (GENA-) GENAISSANCE PHARM INC.
XX
PA Bentivegna SC, Chew A, Choi JY, Koshy B, Stephens JC;
XX PI WPI; 2002-041286/05.
XX
DR
XX New haplotypes of the human apolipoprotein C1 gene, useful to detect and
PT find treatment for disease associated with its activity such as
PT hypercholesterolemia and Alzheimer's disease.
XX
XX Claim 18; Page 13; 51pp; English.
XX
CC The invention relates to single nucleotide polymorphisms in the human
CC apolipoprotein C1 (APOC1) gene. Haplotyping the APOC1 gene of an
CC individual, comprises determining if the individual has one of the APOC1
CC haplotypes or haplotype pairs fully defined in the specification.
CC Genotyping the APOC1 gene of an individual, comprises determining the
CC identity of the nucleotide pair at one or more polymorphic sites and
CC predicting a haplotype pair for the APOC1 gene of an individual by
CC enumerating all possible haplotype pairs which are consistent with the
CC genotype, comparing the possible haplotype pairs to the data detailed in
CC the specification and assigning a haplotype pair to the individual that
CC is consistent with the data. Identifying an association between a trait
CC and a haplotype or haplotype pair of the APOC1 gene, comprises comparing
CC the frequency of the haplotype/haplotype pair in a population exhibiting
CC the trait with that of a reference population, where the
CC haplotype/haplotype pair is one described in the specification and a
CC higher frequency in the trait population indicates the trait is
CC associated with the haplotype. The sequences and methods of the invention
CC are used to diagnose and develop treatment for disease associated with
CC APOC1 activity, such as hypercholesterolemia and senile dementia of
CC Alzheimer's type (SDAT). This sequence represents a PCR primer used for
CC detecting human APOC1 DNA polymorphisms
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 CCACCTTC 9
Db 2 CCACCTTC 9
RESULT 169
ADCO9948
ID ADC09948 standard; DNA; 10 BP.
XX
XX ADC09948;
AC
XX 18-DEC-2003 (first entry)
DT
XX Optical nucleic acid sensor molecule-related oligo, SEQ ID 360.
DE
XX Nucleic acid sensor molecule; ligase; cis-hammerhead; protein kinase; ds.
KW

XX Synthetic.
OS
XX WO2003014375-A2.
PN
XX 20-FEB-2003.
XX
XX 09-AUG-2002; 2002WO-US025319.
PF
XX 09-AUG-2001; 2001US-0311378P.
PR 21-AUG-2001; 2001US-0313932P.
XX 13-SEP-2001; 2001US-00952680.
PR 13-SEP-2001; 2001US-0338186P.
XX 18-JAN-2002; 2002US-0349959P.
PR 13-MAR-2002; 2002US-0364486P.
XX 25-MAR-2002; 2002US-0367991P.
PR 04-APR-2002; 2002US-0369887P.
XX 01-MAY-2002; 2002US-0376744P.
PR 31-MAY-2002; 2002US-0385097P.
XX
XX (ARCH-) ARCHEMIX CORP.
XX
PI Stanton M, Epstein D, Hamaguchi N, Kurz M, Keefe T, Wilson C;
PI Grate D, Marshall KA, Mccauley T, Kurz J;
XX WPI; 2003-300534/29.
XX
XX Nucleic acid sensor molecule, for identifying/detecting protein kinase in
PT a sample, comprises a target modulation domain which recognizes a target
PT molecule, a linker domain, a catalytic domain, and an optical signal
PT generator.
XX
XX Example 39; SEQ ID NO 360; 423pp; English.
XX
CC The present invention relates to nucleic acid sensor molecules (I), which
CC comprise a target modulation domain that recognizes a target molecule
CC (TM), a linker domain, a catalytic domain, and an optical signal
CC generating unit. The catalytic domain comprises a ligase or cis-
CC hammerhead. (I) are useful for identifying or detecting TM in a sample,
CC preferably a protein kinase in a sample. Target molecules include
CC proteins, post-translationally modified forms of proteins, peptides,
CC nucleic acids, oligosaccharides, nucleotides, metabolites, drugs, toxins,
CC biohazards, ions, carbohydrates, polysaccharides, hormones, receptors,
CC antigens, antibodies, viruses, metabolites, co-factors, drugs, dyes,
CC nutrients, growth factors, cGMP, cAMP or cGMP, protein kinase,
CC phosphorylated protein kinase, extracellular signal regulated kinase
CC (ERK), a component or product of mitogen activated protein (MAP) kinase
CC pathway, a MAP kinase pathway associated protein, an extracellular
CC component of MAP kinase pathway, a component of ERK1/2 MAP, JNK MAP or
CC P38 MAP kinase pathway, an endogenous form of MAP kinase (MEK), MAP
CC kinase kinase, or MAP kinase (MEKKK), or RAF kinase, Ras protein,
CC phosphatase, GTP binding protein, G-protein coupled receptor (GPCR),
CC cytokine, growth factor, cellular metabolite, small molecule or lysozyme.
CC (I) are also useful for identifying a modulator of protein kinase
CC activity. The present sequence was used to illustrate the invention.
XX
SQ Sequence 10 BP; 0 A; 1 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 7 TTCTTGGG 14
Db 2 TTCTTGGG 9
RESULT 170
AAL62417/c
ID AAL62417 standard; DNA; 20 BP.
XX
XX AAL62417;
AC
XX

```
DT 06-OCT-2003 (first entry)
XX Human ABC transporter MHC I antisense oligonucleotide, ISIS 206598.
XX
XX ABC transporter; ABCT; major histocompatibility complex; MHC; cytostatic;
XX hyperproliferative; autoimmune disorder; antisense gene therapy;
XX inflammation; tumour formation; immunosuppressive; antimicrobial; human;
XX phosphorothioate backbone; antisense; ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT methylcytidines"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX
XX WO2003051309-A2.
XX
XX 26-JUN-2003.
XX
XX 12-DEC-2002; 2002WO-US040101.
XX
XX 17-DEC-2001; 2001US-00024369.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Borchers AH, Ward DT, Freier SM;
XX WPI; 2003-577305/54.
XX
XX New antisense compound that hybridizes and inhibits the nucleic acid
XX encoding ABC transporter major histocompatibility complex 1, for treating
XX diseases or conditions such as a hyperproliferative or autoimmune
XX disorder.
XX
XX Claim 3; Page 81; 112pp; English.
XX
XX The invention relates to a compound targetted to a nucleic acid molecule
XX encoding ABC transporter (ABCT) major histocompatibility complex (MHC) 1
XX where the compound specifically hybridises with the nucleic acid molecule
XX and inhibits expression of ATM or specifically hybridises with at least a
XX portion of an active site on the nucleic acid molecule. The invention is
XX useful for inhibiting the expression of ATM in cells or tissues. The
XX invention is useful for treating an animal with hyperproliferative or
XX autoimmune disorder. The invention is useful for diagnostics,
XX therapeutics, prophylaxis, as research reagents and kits, for
XX distinguishing functions of various members of a biological pathway and
XX in antisense gene therapy. The invention is also useful prophylactically
XX e.g., to prevent or delay infection, inflammation or tumour formation.
XX The present sequence is an antisense oligo targetted to human ABC
XX transporter MHC I DNA. This sequence is used to illustrate the method of
XX the invention
XX
XX Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 35.0%; Score 7; DB 1; Length 20;
XX Best Local Similarity 66.7%; Pred. No. 1.4e+02;
XX Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
XX
XX QY 6 CTTCTTGGCCAGAG 20
XX |||||
XX 20 CTTCTGCCACAGAG 6
XX
```

```
RESULT 171
ABH88612/c
ID ABH88612 standard; DNA; 12 BP.
XX
XX AC ABH88612;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 288605 for detecting SNP TSC0013593.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX
XX PR 07-APR-2000; 2000DE-01019173.
XX
XX (EPITG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 288605; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF0010-ABF99989, ABH0010-ABH99989 and ABI0010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 32.0%; Score 6.4; DB 1; Length 12;
XX Best Local Similarity 87.5%; Pred. No. 1.5e+02;
XX Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 13 GGCAGAG 20
XX |||||
XX Db 11 GGAAGAAG 4
XX
XX RESULT 172
ABH88613/c
ID ABH88613 standard; DNA; 12 BP.
XX
XX AC ABH88613;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 288606 for detecting SNP TSC0013593.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
```


KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.

XX WO200177384-A2.
 XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.

XX Claim 1; SEQ ID NO 288606; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 1 A; 6 C; 1 G; 4 T; 0 U; 0 Other;

XX Query Match 32.0%; Score 6.4; DB 1; Length 12;
 XX Best Local Similarity 87.5%; Pred. NO. 1.5e+02;

XX Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 13 GGCAGAAG 20

Db 11 GGAAGAAG 4

RESULT 173

AAZ79378

ID AAZ79378 standard; DNA, 10 BP.

XX AAZ79378;

DT 10-APR-2000 (first entry)

XX Human dendritic cell SAGE tag, SEQ ID NO:1806.

XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX Homo sapiens.

XX WO9965924-A2.

XX 23-DEC-1999.

XX 18-JUN-1999; 99WO-US013800.

XX 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-008991P.

PR 19-JUN-1998; 98US-008992P.

PR 19-JUN-1998; 98US-008993P.

PR 19-JUN-1998; 98US-008994P.

PR 19-JUN-1998; 98US-008997P.

PR 19-JUN-1998; 98US-008999P.

PR 19-JUN-1998; 98US-009000P.

PR 19-JUN-1998; 98US-009003P.

PR 19-JUN-1998; 98US-009003P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

PR 19-JUN-1998; 98US-009004P.

(GENZ) GENZYME CORP.
 (ROBE/) ROBERTS B L.
 (SHAN/) SHANKARA S.
 Roberts BL, Shankara S;
 WPI; 2000-106077/09.
 Isolated polynucleotides differentially expressed in antigen-presenting
 cells, useful in gene vaccines against cancer.
 Claim 1; Page 116; 130pp; English.

Sequences AAZ77573-279709 represent SAGE (serial analysis of gene
 expression) tags used to identify mRNA transcripts encoding
 immunostimulatory cofactor proteins which are preferentially or
 differentially expressed in monocyte-derived dendritic cells compared
 with monocytes. Some of the transcripts correspond to known genes or ESTs
 (expressed sequence tags) which were previously unknown to be
 preferentially or differentially expressed in dendritic cells, while
 other transcripts correspond to novel genes. Antigen-presenting cell
 (APC)-associated costimulatory factors play an important role in the
 activation of the cytotoxic immune response, particularly against tumour
 cells. Tumour antigen presentation via the MHC (major histocompatibility
 complex) and subsequent recognition by T-cell receptors is alone
 insufficient to activate a robust cytotoxic immune response that can lyse
 the tumour cells, immunostimulatory cofactors also being required for
 efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
 sequences identified using the SAGE tags have several potential uses.
 They may be used in vaccines to induce an immune response, particularly
 against a tumour antigen, to modulate the genotype of an APC; to screen
 for agents that modulate expression of differentially expressed genes in
 an APC; and as hybridisation probes/amplification primers for the
 diagnosis, prognosis and monitoring of diseases related to abnormal
 expression of these genes. Detection of the dendritic cell differentially
 expressed genes, or of their encoded proteins, can be used to identify
 cells as belonging to the monocyte lineage. Cells containing these genes
 can be used in active immunotherapy (or to stimulate production of a
 population of antigen-specific effector cells) and vectors containing
 them are used in gene therapy. Co-administration of tumour antigens and
 APC-associated costimulatory factors ensures adequate antigen
 presentation to endogenous APCs and upregulates the APCs for the
 presentation of co-stimulatory signals, migration to T cell-rich sites,
 secretion of T cell growth factors and secretion of chemokines for